

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

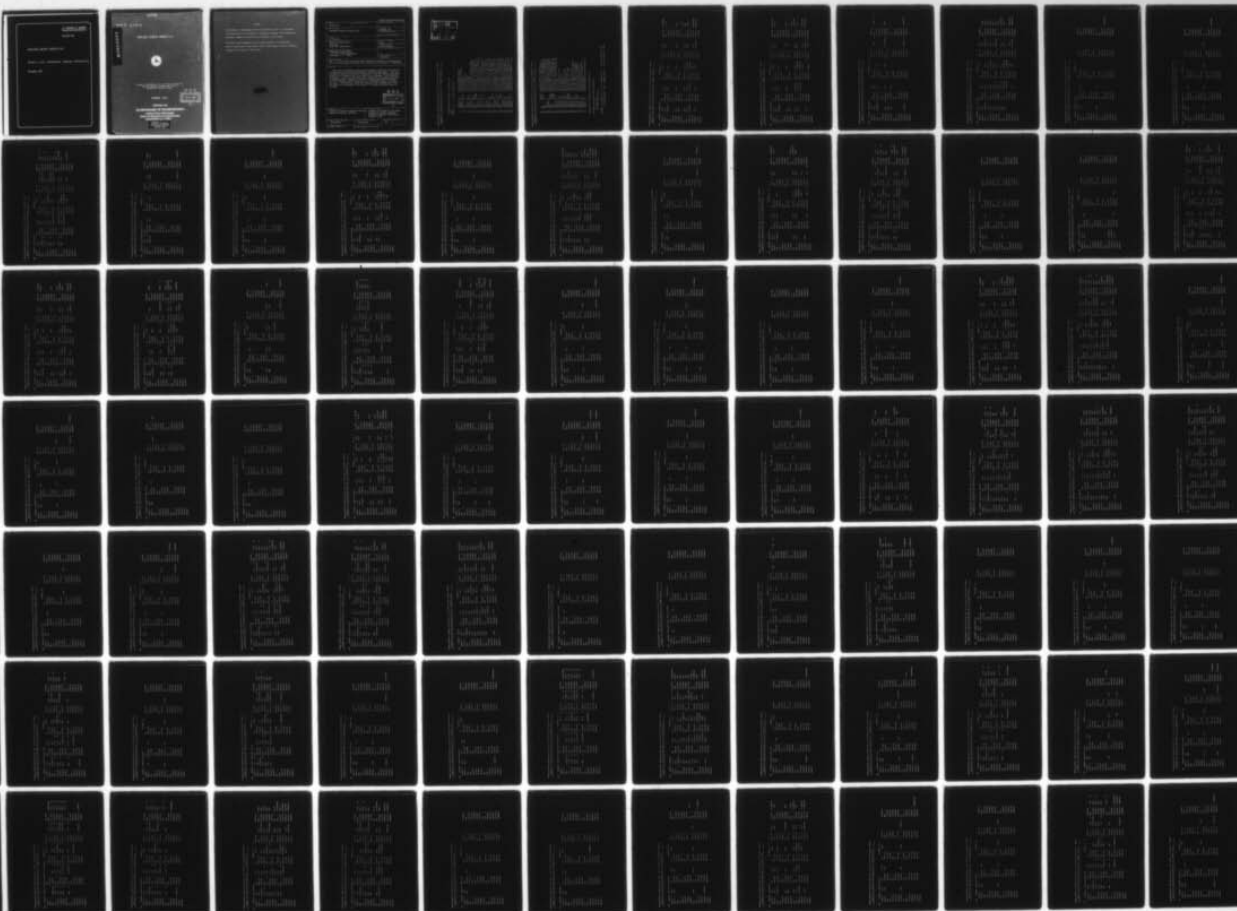
F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A
NL

1 OF 10
AD-A
034 607



U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

AD-A034 607

CHRIS/HACS CHEMICAL PROPERTY FILE

ARTHUR D. LITTLE, INCORPORATED, CAMBRIDGE, MASSACHUSETTS

DECEMBER 1976

024108

REPORT NO. CG-D-124-76

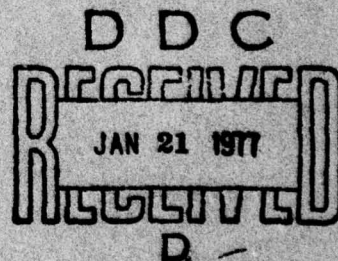
ADA034607

CHRIS/HACS CHEMICAL PROPERTY FILE



Document is available to the U.S. Public through the
National Technical Information Service,
Springfield, Virginia 22161

DECEMBER 1976



PREPARED FOR

U.S. DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD

OFFICE OF RESEARCH AND DEVELOPMENT

WASHINGTON, D.C. 20590

REPRODUCED BY
**NATIONAL TECHNICAL
INFORMATION SERVICE**
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

NOTICE

This document is disseminated under the sponsorship of the U. S. Department of Transportation in the interest of information exchange. The United States Government assumes no liability for the contents or use thereof.

The United States Government does not endorse products or manufacturers. Trade or manufacturers' names appear herein solely because they are considered essential to the object of this report.

Technical Report Documentation Page

1. Report No. CG-D-124-76	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle CHRIS/HACS Chemical Property File		5. Report Date December 1976	
		6. Performing Organization Code	
7. Author(s) E. Atkinson		8. Performing Organization Report No.	
9. Performing Organization Name and Address Arthur D. Little, Inc. Acorn Park Cambridge, Massachusetts		10. Work Unit No. (TRAIS) 4430	
		11. Contract or Grant No. DOT-CG-24,655-A	
12. Sponsoring Agency Name and Address Commandant (G-DSA-1/TP44) U. S. Coast Guard Headquarters Washington, D. C. 20590		13. Type of Report and Period Covered	
		14. Sponsoring Agency Code G-DSA/TP44	
15. Supplementary Notes The U. S. Coast Office of Research and Development's technical representatives for the work performed herein were Drs. John M. Cece and Michael C. Parnarouskis.			
16. Abstract This report represents a listing of the Chemical Properties File which is an integral part of the Hazard Assessment Computer System (HACS). This file contains the physical and chemical properties of some 900 chemical substances; as many as 74 properties may be recorded for each chemical. The properties contained in the file may be either exact values from the chemical literature or estimated values obtained by the use of standard estimation techniques. An "(E)" following a value indicates it is an estimated values; all others are exact. The properties, their code names and their ordering on the file are given at the beginning of this report. All numeric data are listed in SI units.			
17. Key Words Physical Properties, Chemical Properties, Hazardous Chemicals, Chemicals		18. Distribution Statement Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 903	22. Price

DDC
RECEIVED
JAN 21 1977
D

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FIELDS SELECTED FOR RETRIEVAL AND DISPLAY ARE ...

FIELD NUMBER	NAME	SI	UNIT	DESCRIPTION
1	CHEMCODE	NA		CHEMICAL RECOGNITION CODE
2	CHEMNAME	NA		CHEMICAL OR COMPOUND NAME
3	PATHCODE	NA		HAZARD ASSESSMENT PATH CODES
4	MOLEWT	KG/KGM		MOLECULAR WEIGHT
5	NBP	K		NORMAL BOILING POINT
6	NFP	K		NORMAL FREEZING POINT
7	CRITTEMP	K		CRITICAL TEMPERATURE
8	CRITPRES	N/M2		CRITICAL PRESSURE
9	DENSITY	KG/M3		DENSITY (DATA POINT)
10	DENSTEMP	K		TEMPERATURE AT WHICH DENSITY IS GIVEN
11	SHPSTATE	NA		PHYSICAL STATE OF COMPOUND AS SHIPPED
12	ARHO	KG/M3		CONSTANT IN SAT. LIQ. DENSITY EQUATION
13	BRHO	KG/M3K		COEFFICIENT OF T. SAT. LIQ. DENS. EON.
14	CRHO	KG/M3K2		COEFFICIENT OF T.2. SAT. LIQ. DENS. EON.
15	LDUPRND	K		UPPER TEMPERATURE BOUND. SAT. LIQ. DENS. EON.
16	LDLWRND	K		LOWER TEMPERATURE BOUND. SAT. LIQ. DENS. EON.
17	LOVISPT	NS/M2		LIQUID VISCOSITY (DATA POINT)
18	LOVISTMP	K		TEMPERATURE AT WHICH LIQ. VISC. IS GIVEN
19	AVIS	*1(SI)		CONSTANT IN LIQUID VISCOSITY EQUATION
20	BVIS	K		COEFFICIENT OF T. LIQ. VISC. EON.
21	LVUPRND	K		UPPER TEMPERATURE BOUND. LIQ. VISC. EON.
22	LVLWRND	K		LOWER TEMPERATURE BOUND. LIQ. VISC. EON.
23	LOTHRND	W/MK		LIQUID THERMAL CONDUCTIVITY (DATA POINT)
24	LTHCNTMP	K		TEMPERATURE AT WHICH LIQ. TH. CON. IS GIVEN
25	ACON	W/MK		CONSTANT IN LIQ. THER. COND. EQUATION
26	BCON	W/MK2		COEFFICIENT OF T. LIQ. THER. COND. EON.
27	LTCUPRND	K		UPPER TEMPERATURE BOUND. LIQ. THER. COND. EON.
28	LTCLOSRND	K		LOWER TEMPERATURE BOUND. LIQ. THER. COND. EON.
29	LOHTCPT	J/KGK		LIQUID HEAT CAPACITY (DATA POINT)
30	LOHTCPTM	K		TEMPERATURE AT WHICH LIQ. HT. CAP. IS GIVEN
31	AHC	J/KGK		CONSTANT IN LIQ. HEAT CAPACITY EQUATION
32	BHC	J/KGK2		COEFFICIENT OF T. LIQ. HEAT CAPACITY EON.
33	LHCUPRND	K		UPPER TEMPERATURE BOUND. LIQ. HT. CAP. EON.
34	LHCLWRND	K		LOWER TEMPERATURE BOUND. LIQ. HT. CAP. EON.
35	SURFTENS	N/M		LIQUID SURFACE TENSION (DATA POINT)
36	SFTNTMP	K		TEMPERATURE AT WHICH LIQ. SURF. TNS. GIVEN
37	INTFTENS	N/M		LIQUID-WATER INTERFACIAL TENSION (POINT)
38	INTFTTMP	K		TEMPERATURE AT WHICH INTERFAC. TNS. GIVEN
39	SOLUSPT	KG/HKC		SOLUBILITY IN WATER (DATA POINT)
40	SOLUBTMP	K		TEMPERATURE AT WHICH SOLUBILITY IS GIVEN

ACCESSION NO.	
8710	Write Section <input checked="" type="checkbox"/>
880	Read Section <input type="checkbox"/>
CLASSIFICATION	
STANDARD NUMBER	
STANDARD SYMBOL	
A	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

41	A	KG/HKG	CONSTANT IN SOLUBILITY EQUATION
42	B	KG/HKGK	COEFFICIENT OF T. SOLUBILITY EQUATION
43	AVP	*2(SI)	CONSTANT AVP IN SAT. VAPOR PRESSURE EON.
44	BVP	K	CONSTANT BVP IN SAT. VAPOR PRESSURE EON.
45	CVP	K	CONSTANT CVP IN SAT. VAPOR PRESSURE EON.
46	VUPRBD	K	UPPER TEMPERATURE BOUND. SAT.VP.PRES.EON
47	VPLWRBD	K	LOWER TEMPERATURE BOUND. SAT.VP.PRES.EON
48	AVCP	J/KGMK	CONSTANT IN VAPOR HEAT CAPACITY EQUATION
49	BVCP	J/KGMK2	COEFFICIENT OF T. VAPOR HEAT CAP. EON.
50	CVCP	J/KGMK3	COEFFICIENT OF T+2. VAPOR HEAT CAP. EON
51	DVCP	J/KGMK4	COEFFICIENT OF T+3. VAPOR HEAT CAP. EON
52	VHCUPBD	K	UPPER TEMPERATURE BOUND. VPR.HT.CAP. EON
53	VHCLOBD	K	LOWER TEMPERATURE BOUND. VPR.HT.CAP. EON
54	HTFUSION	J/KG	HEAT OF FUSION
55	LHTVAPOR	J/KG	LATENT HEAT OF VAPORIZATION
56	HTCOMSTN	J/KG	HEAT OF COMBUSTION
57	HTDECOMP	J/KG	HEAT OF DECOMPOSITION
58	HTSOLUTN	J/KG	HEAT OF SOLUTION
59	HTREACTN	J/KG	HEAT OF REACTION WITH WATER
60	HTPOLYCR	J/KG	HEAT OF POLYMERIZATION
61	LOFLMLIM	PERCENT	LOWER FLAMMABLE LIMIT IN AIR
62	UPEFLMLIM	PERCENT	UPPER FLAMMABLE LIMIT IN AIR
63	BURNRATE	M/S	BURNING RATE
64	TOXINHAL	PPM	TOXICITY BY INHALATION (TLV)
65	INHALCMC	PPM	SHORT TERM INHALATION LIMIT (CONCENTR.)
66	INHALTME	S	SHORT TERM INHALATION LIMIT (TIME)
67	LOTOXLM	KG/KG	LOWER LIMIT. TOXICITY BY INGESTION
68	UPTOXLM	KG/KG	UPPER LIMIT. TOXICITY BY INGESTION
69	LATETOX	NA	LATE TOXICITY (DESCRIPTIVE VALUE)
70	ABFLMTWP	K	ADIASATIC FLAME TEMPERATURE
71	MOLRATIO	ND	MOLAR RATIO OF REACTANTS TO PRODUCTS
72	AIRFUEL	ND	STOICHIOMETRIC AIR TO FUEL RATIO
73	FLMETEMP	K	FLAME TEMPERATURE
74	MOLFRAC	ND	LIMITING VALUE. MOLECULAR FRACTION CONC.

OPTIONAL OUTPUT TO MAGNETIC TAPE HAS BEEN SELECTED

RETRIEVAL AND DISPLAY OPTIONS SELECTED FOR ...

ALL CHEMICALS
UP TO AND INCLUDING GSR

PROPERTY FILE OPENED HAS ID = 1552. VERSION NUMBER = 16. DATE CREATED = 112776

GENERATED FROM ID = 9093. VERSION NUMBER = 15. DATE CREATED = 112776

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AAC  CHEMNAME = ACETIC ACID
MOLEWT = 60.05  NBP = 391.1  NFP = 290.0  CRITTEMP = 594.8  CRITPRES = 0.5780E+07
DENSITY = 1051.  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1373.  BRHO = -1.103
CRHO = 0.5800E-05  LDUPREND = 373.2  LDLWRBND = 273.2  LQVISFNT =  LQVISTMP =
AVIS =  LVUPREND =  LVLRBND =  LQTHRCND =
LTHCNTMP =  BCON =  LTCLOBND =
LQHTCPPT = 2035.  LQHTCPTM = 293.2  AHC = 918.7  BHC = 3.810  LHCUPBND = 433.2
LHCLOBND = 289.2  SURFTENS =  SFTNTEMP =  INTFTENS =  INTFTTMP =
SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 9.424
BVP = 1479.  CVP = -56.36  VPUPREND = 423.2  VPLWRBND = 290.2  AVCP = 4840.
BVCP = 254.8  CVCP = -0.1754  DVCP = 0.5024E-04  VHCUPBND = 600.0  VHCLOBND = 250.0
HTFUSION = 0.1955E+06  LHTVAPOR = 0.2374E+06  HTCOMBTN = -0.1313E+08  HTSOLUTN =
HTREACTN =  LOPFLMLIM = 5.400  HTDECOMP =  UPFLMLIM = 16.00  BURNRATE = 0.2667E-04
TOXINHAL = 10.00  INHALCNC = 40.00  INHALTME = 300.0  LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

*****
AAD  CHEMNAME = ACETALDEHYDE          PATHCODE = A  B  C  K  L  M  N  Z
MOLECWT = 44.05      NBP = 293.6      NFP = 150.0      CRITTEMP= 461.0      CRITPRES= 0.5700E+07
DENSITY = 780.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1144.      BRHO = -1.240
CRHO = 0.0000E+00      LDUPRND= 373.2      LDLRND= 243.2      LQVISRAT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLOBND=
LQHTCPPT= 1382.      LQHTCPTM= 293.2      AHC = 966.6      BHC = 1.382      LHCUPEND= 393.2
LHCLOBND= 193.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.923
BVP = 1444.      CVP = 0.4004E-01      VPUPRND= 333.2      VPLWRND= 253.2      AVCP = 0.1547E+05
BVCP = 144.4      CVCP = -0.4312E-01      DVCP = 0.0000E+00      VHCUPEND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.5694E+06      HTCOMB3TN= -0.2466E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 4.000      UPFLMLIM= 60.00      BURNRATE= 0.5500E-04
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO= 0.8750      (E) AIRFUEL = 7.800      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AAM  CHEMNAME = ACRYLAMIDE
      MOLECW = 71.00      NBP = 692.0
      DENSITY = 1050.      DENSTEMP = 298.1
      CRHO = 0.0000E+00(E) LDUPREND = 298.1
      AVIS =              BVIS =
      LTHCNTMP =          ACON =
      LQHTCPPT = 3349.      (E) LOHTCPTM = 293.1
      LHCLOBND = 288.1      SURFTENS =
      SOLUBPNT = 216.0      SOLUBTMP = 293.1
      BVP =              CVP =
      BVCP =              CVCP =
      HTFUSIGN =          LHTVAPOR =
      HTREACTN =          HTPOLYMR =
      TOXINHAL = 0.9500E-01 INHALCNC =
      LATETOX =          ABFLMTMP =
      MOLFRAC =
      PATHCODE = A P Z
      CRITPRES =          CRITTEMP =
      (E) BRHO = 1343.      ZPHO =
      LQVISTNP =          LQVISPNT =
      LQTHRCND =          LVLWRBND =
      LTCLOBND =          LTCUPBND =
      LHCUPBND = 298.1      INTFTIMP =
      AVP =              VPLWRBND =
      AVCP =              VHCLOBND =
      HTSOLUTN =          HTDECORP =
      BURNRATE =          UPFLMLIN =
      UPTOXLIM = 0.5000E-04 LOTCXLIM =
      FLMETEMP =          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AAN  CHEMNAME = N-ANYL ALCOHOL
      MOLECWT = 88.15      NBP = 411.1      NFP = 194.0      CRITTEMP= 586.0      CRITPRES=
      DENSITY = 818.0      DENSTEMP= 238.2      SHPSTATE=L      ARHO = 1078      BRHO = -0.9000
      CRHO = 0.0000E+00      LDUPRND= 323.2      LDWRBND= 273.2      LQVISPLT= 0.5200E-02      LQVISTMP= 293.2
      AVIS = -16.87      BVIS = 3406.      LVUPRND= 323.2      LVLWRBND= 283.2      LQTHRCND= 0.1547
      LTHCNTMP= 293.2      ACON = 0.1888      BCON = -0.1163E-03      LTCUPBND= 333.2      LTCLOBND= 263.2
      LQHTCPPT= 2177.      LQHTCPTM= 293.2      AHC = -506.4      BHC = 9.211      LHCUPBND= 353.2
      LHCLOBND= 263.2      SURFTENS= 0.2560E-01      SFTNTEMP= 293.2      INTFTENS= 0.5000E-02      INTFTTMP= 293.1
      SOLUBPNT= 2.600      SOLUBTMP= 298.7      A = 11.65      AVP = 0.5979E+05
      BVP = 2660.      CVP = 0.4004E-01      VPUPRND= 353.2      VPLWRBND= 263.0      AVCP = 250.0
      BVCP = 295.2      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 400.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.5049E+06      HTCOMBNTN= -0.3768E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      UPFLMLIM= 7.500      BURNRATE= 0.6000E-04
      TOXINHAL=      INHALCNC= 150.0      INHALTME= 1800.      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AAT  CHEMNAME = AMMONIUM ACETATE          PATHCODE = SS
MOLEWT = 77.08      NEP =      NFP =      CRITPRES=
DENSITY = 1170.     DENSTEMP= 293.1      ARHO =      BRHO =
CRHO =      LDUPREND=      BVIS =      LQVISTMP=
AVIS =      ACON =      LQHCPTM=      LQTHRCND=
LTHCNTMP=      SURFTENS=      SFTNTEMP=      LTCLOBND=
LHCLOBND=      SOLUBPNT= 148.0      A =      B =      LHCUPBND=
BVP =      CVP =      VPUPREND=      INTFTIMP=
BVCP =      CVCP =      DVCP =      AVP =
HTFUSION=      LHTVAPOR=      HTCONSTN=      VHCLOBND=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      HTSOLUTN=
TOXINHAL=      INHALCNC=      INHALTIME=      BURNRATE=
LATETOX =      ABFLMTMP=      MOLRATIO=      UPTOXLIM=
MOLFRAC =      FLMETEMP=
-0.1300E+05

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ABC  CHEMNAME = AMMONIUM BICARBONATE          PATHCODE = SS
MOLEWT = 79.06      NBP =                      NFP =
DENSITY = 1570.     DENSTEMP= 293.1            SHPSTATE=S
CRHO =              LDUPRBNB=                  LDLWRBNB=
AVIS =              BVIS =                      LVUPRBNB=
LTHCNTMP=           ACON =                      BCON =
LQHTCPPT=           LQHTCPTM=                  AHC =
LHCLOBND=           SURFTENS=                  SFTNTMP=
SOLUBPNT= 21.60     SOLUBTMP= 293.1            A = -198.3
BVP =               CVP =                      VPUPRBNB=
BVCP =              CVCP =                      DVCP =
HTFUSION=           LHTVAPOR=                  HTCOMSTN=
HTREACTN=           HTPOLYMR=                  LOFLWLMIM=
TOXINHAL=           INHALCNC=                  INHALTME=
LATETOX =           ABFLMTMP=                  MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 0.7500
AVCP =
VHCLOBND=
HTSOLUTN= 0.3300E+06
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ABF  CHEMNAME = AMMONIUM BIFLUORIDE          PATHCODE = SS
      MOLEWT = 57.04      NBP = 512.7      NFP = 398.8
      DENSITY = 1500.      DENSTEMP = 293.1      SHPSTATE = S
      CRHO =              LDUPRBD =          LQVISP =
      AVIS =              BVIS =            LVUPRBD =
      LTHCNTMP =          ACON =            LTCUPBD =
      LQHTCPPT =          LQHTCPTW =        BHC =
      LHCLOBND =          SURFTENS =         INTFTMP =
      SOLUBP.T = 58.30      SOLUBTMP = 293.1      A =
      BVP =              CVP =             VUPRBD =
      BVCP =              CVCP =            VHCUPBD =
      HTFUSION =          LHTVAPOR =        HTDECON =
      HTREACTN =          HTPOLYMR =        UPFLVLIM =
      TOXINHAL = 0.9800      INHALCNC =      LOTOXLIM =
      LATETOX =            ABFLMTMP =        MOLRATIO =
      MOLFRAC =
      CRITPRES =
      BRHO =
      LOVISTMP =
      LOTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM =
      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ABM CHEMNAME = ACETYL BROMIDE PATHCODE = A 0

MOLEWT = 122.9	NBP = 349.0	NFP = 176.7	CRITTEMP =	CRITPRES =
DENSITY = 1660.	DENSTEMP = 289.1	SHFSTATE = L	ARHO = 1953.	(E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E)	LDUPRBND = 298.1	LDLWRBND = 273.1	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND = 0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LTCUPBND = 298.1	LTCLOBND = 283.1
LQHTCPPT = 2512.	(E) LQHTCPTM = 293.1	AHC = 2512.	(E) BHC = 0.0000E+00(E)	LHCUPBND = 298.1
LHCLOBND = 288.1	SURFTENS =	SFTTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.545 (E)
BVP = 1585.	(E) CVP = -0.1500	(E) VPUPRBND = 353.1	VPLWRBND = 283.1	AVCP = 0.1830E+05(E)
BVCP = 196.5	(E) CVCP = -0.1231	(E) DVCP = 0.2952E-04(E)	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.2500E+06	HTCOM3TN =	HTDECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ABR CHEMNAME = ALLYL BROMIDE

PATHCODE = A X Y

[illegible]

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ABS CHEMNAME = ALKYL BENZENESULFONIC ACIDS PATHCODE = A P

MOLEWT =	352.0	(E) NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY =	1200.	(E) DENSTEMP =	SHPSTATE=L	ARHO =	BRHO =
CRHO =	0.0000E+00	LDUPRBND =	273.1	LQVISPNT =	LQVISTMP =
AVIS =		BVIS =	LVUPRSND =	LVLWRSND =	LQTHRCND =
LTHCNTMP =		ACON =	BCON =	LTCUPSD =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =		SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =	A =	S =	AVP =
BVP =		CVP =	VPUPRSND =	VPLWRSND =	AVCP =
BVCP =		CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =		LHTVAPOR =	HTCOMBNTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =		HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =		INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =		ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =					

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

ABZ  CHEMNAME = AMMONIUM BENZOATE          PATHCODE = SS
      MOLECW = 139.1  NBP = 471.0
      DENSITY = 1260.  DENSTEMP = 298.1  SHESTATE=S
      CRHO =          LDUPRND=
      AVIS =          BVIS =
      LTHCNTMP=        ACON =
      LQHTCPPT=        LQHTCPTM=
      LHCLOBND=        SURFTENS=
      SOLUBPAT= 22.90  SOLUBTMP= 298.1  A = -69.58
      BVP =          CVP =
      BVCP =          CVCP =
      HTFUSION=        LHTVAPOR=
      HTREACTN=        HTPOLYMR=
      TOXINHAL=        INHALCNC=
      LATETOX =        ABFLNTPM=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LOVISIMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTIMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN= 0.8000E+05
      BURNRATE=
      UPTOXLIM=
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LOVISPAT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B = 0.3100
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      UPFLMLIM=
      LOTOXLIM=
      AIRFUEL =
  
```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACB  CHEMNAME = AMMONIUM CARBONATE          PATHCODE = SS
      MOLECW = 157.1      NBP =
      DENSITY = 1500.      DENSTEMP = 293.1      SHPSTATE = S
      CRHO =
      LDUPRBN =
      BVIS =
      ACON =
      LQHTCPTM =
      LQHTCPPT =
      LHCLOBND =
      SOLUBPNT = 102.0      SOLUBTMP = 288.1      A = -108.4
      BVP =
      BVCP =
      HTFUSION =
      HTREACTN =
      TOXINHAL =
      LATETOX =
      MOLFRAC =

      CRITPRES =
      BRHO =
      LQVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM =
      FLMETEMP =

      CRITTEMP =
      ARHO =
      LQVISPNT =
      LVLWRBND =
      LTCUPBND =
      BHC =
      INTFTENS =
      B =
      VPLWRBND =
      VHCUPBND =
      HTDECOMP =
      UPFLMLIM =
      LOTOXLIM =
      AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
ACC  CHEMNAME = ACETYL CHLORIDE          PATHCODE = A  0
MOLEWT = 78.50      NBP = 324.0      NFP = 161.0      CRITPRP= 519.0      (E) CRITPRES= 0.5830E+07(E)
DENSITY = 1104.      DENSTEMP= 294.1      SHPSTATE=L      ARHO = 2113.      BRHO = -3.600
CRHO = 0.0000E+00      LDUPREND= 373.1      LDLPREND= 273.1      LOVISPNT= 0.4400E-03      LQVISTMP= 293.1
AVIS = -10.87      BVIS = 924.0      LVUPREND= 353.1      LVLWREND= 273.1      LQTHRCND= 0.1535
LTHCNTMP= 293.1      ACON = 0.2015      BCON = -0.1628E-03      LTCUPEND= 353.1      LTCLOBND= 273.1
LQHTCPPT= 1465.      LOHTCPTM= 293.1      AHC = 1159.      EHC = 1.047      LHCUPEND= 373.1
LHCLOBND= 273.1      SURFTENS= 0.2600E-01      SFTNTEMP= 293.1      INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.841
BVP = 1576.      CVP = 0.5000E-01      VPUPREND= 373.1      VPLWREND= 273.1      AVCP = 0.3370E+05
BVCP = 106.8      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPEND= 500.0      VHCLOBND= 300.0
HTFUSION=          LHTVAPOR= 0.3700E+06      HTCONDSTN= -0.1400E+08      HTSOLUTN= -0.1300E+06(E)
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE= 0.4342E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLWTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACD	CHEMNAME = ACRIDINE	PATHCODE = II	
MOLEWT =	179.1	NBP =	619.0
DENSITY =	1200. (E)	DENSTMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCONSTN =	-0.3680E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		UPFLMLIM =	
		LOTOXLIM =	0.5000E-03
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	
		BURNRATE =	
		HTSOLUTN =	
		VHCLOBND =	
		AVCP =	
		AVP =	
		INTFTIMP =	
		LHCUPBND =	
		LTCLOBND =	
		LQTHRCND =	
		LOVISIMP =	
		BRHO =	
		CRITPRES =	
		CRITTEMP =	383.0
		ARHO =	
		LOVISPLT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACE    CHEMNAME = ACETYLENE
      PATHCODE = A B C
MOLEWT = 26.04      NBP = 189.2      CRITTEMP= 308.4      CRITPRES= 0.6138E+07
DENSITY = 613.0      DENSTEMP= 193.2      ARHO = 942.4      BRHO = -1.700
CRHO = 0.0000E+00      LDUPREND= 273.2      LDWRBND= 193.2      LQVISMP=
AVIS =      BVIS =      LVUPR3ND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCLOBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTTNP=      INTFTTNP=
SOLUBPNT=      A =      B =      AVP = 9.220
BVP = 709.1      CVP = -19.96      VPUPR3ND= 213.2      VPLWRBND= 192.2      AVCP = 0.1583E+05
BVCP = 128.1      CVCP = -0.1277      DVCP = 0.5024E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOM3TN= -0.4826E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.500      UPFLMLIM= 100.0      BURNRATE=
TOXINHAL= 5000.      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLWTMP= 2907.      (E) MOLRATIO= 1.167      (E) AIRFUEL = 13.18      (E) FLWETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACF  CHEMNAME = ALLYL CHLOROFORMATE
      MOLEWT = 120.5      NBP = 318.0      NFP = 193.0      CRITTEMP=
      DENSITY = 1139.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1433.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E) LDUPRBND= 303.1      LDLWRBND= 273.1      LQVISPT= 0.7100E-03      LQVISTMP= 293.1
      AVIS = -11.62      (E) BVIS = 1280.      (E) LVUPRBND= 303.1      LVLWRBND= 273.1      LQTHRCND= 0.1512      (E)
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 303.1      LTCLOBND= 273.1
      LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E)      LHCUPBND= 303.1
      LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E)      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPT=      SOLUBTMP=      A =      B =      AVP = 9.645      (E)
      BVP = 1475.      (E) CVP = -0.1500      (E) VPUPRBND= 323.1      VPLWRBND= 288.1      AVCP = 0.2709E+05(E)
      BVCP = 329.9      (E) CVCP = -0.1637      (E) DVCP = 0.7829E-04(E)      VHCUPBND= 500.0      VHCLOBND= 300.0
      HTFUSION=      LHTVAPOR= 0.2300E+06(E)      HTCCO3TN= -0.1800E+08(E)      HTDECOMP=      HTSOLUTN=
      HTPOLYMR=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.8183E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
      LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACI  CHEMNAME = AMMONIUM CITRATE                                PATHCODE = SS
MOLECW = 226.0  NBP = 293.1  CRITTEMP =
DENSITY = 1480.  DENSTEMP = 293.1  ARHO =
CRHO =  LDUPRND =  BVIS =  ACON =  LOHTCPTM =  SURFTENS =  SFTNTEMP =
AVIS =  ACON =  LOHTCPTM =  SURFTENS =  SFTNTEMP =
LTHCNTMP =  LOHTCPPT =  LHCLOBND =  SOLUBPNT = 100.0  SOLUBTMP = 298.1  A =  B =
BVP =  CVP =  CVCP =  LHTVAPOR =  HTPOLYMR =  INHALCNC =  ABFLMTMP =
BVC =  CVCP =  LHTVAPOR =  HTPOLYMR =  INHALCNC =  ABFLMTMP =
HTFUSION =  HTREACTN =  TOXINHAL =  LAFETOX =  MOLFRAC =
HTSOLUTN =  HTDECOWP =  LOFLMLIM =  INHALTME =  MOLRATIO =
VPLWRBND =  DVCP =  HTCOMSTN =  LOFLMLIM =  INHALTME =  MOLRATIO =
VHCLOBND =  VHCUPBND =  HTDECOWP =  LOFLMLIM =  INHALTME =  MOLRATIO =
AVCP =  VHCLOBND =  HTDECOWP =  LOFLMLIM =  INHALTME =  MOLRATIO =
AVP =  B =  VPLWRBND =  DVCP =  HTCOMSTN =  LOFLMLIM =  INHALTME =  MOLRATIO =
INTFTMP =  LHCUPBND =  BHC =  INTFTENS =  SFTNTEMP =  SFTNTEMP =  SFTNTEMP =
LHCLOBND =  LTCUPBND =  LTCUPBND =  LTCUPBND =  LTCUPBND =  LTCUPBND =  LTCUPBND =
LOTHRCND =  LQVISTMP =  LQVISTMP =  LQVISTMP =  LQVISTMP =  LQVISTMP =  LQVISTMP =
BRHO =  CRITPRES =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACL  CHEMNAME = ALUMINUM CHLORIDE          PATHCODE = RR  C
MOLEWT = 133.3      NBP =
DENSITY = 2440.      DENSTEMP= 298.2
CRHO =              LDUPRND=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LQHTCPT=            LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP =              CVP =
BVCP =              CVCP =
HTFUSION= 0.3014E+06  LHTVAPOR=
HTREACTN= -0.4145E+06  HTPOLYMR=
TOXINHAL= 5.000      INHALCNC= 5.000
LAETOX =              ABFLMTMP=
MOLFRAC =              MOLRATIO=

CRITTEMP=
ARHO =
LOVISPRIT=
LVLWRSD=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRSD=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTOXLM= 300.0
AIRFUEL =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPEND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACN	CHEMNAME = ACRYLONITRILE	PATHCODE = A	P	Q	R	S	Z
MOLEWT =	53.06	NBP =	350.6	NFP =	189.6	CRITTEMP =	536.0
DENSITY =	807.5	DENSTEMP =	293.2	SHPSSTATE = L		ARHO =	1101.
CRHO =	0.0000E+00	LDUPRBND =	333.2	LDLWPSBND =	253.2	LQVISPAI =	
AVIS =		BVIS =		LVUPPSBND =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCUPEND =	
LQHTCPPT =	2000.	(E) LQHTCPTM =	293.0	(E) AHC =	2000.	(E) BHC =	0.0000E+00(E)
LHCLOBND =	270.0	(E) SURFTENS =		SFTNTEMP =		INTFTENS =	
SOLUBPNT =	8.000	SOLUBTMP =	294.3	A =		B =	
BVP =	1208.	CVP =	-51.16	VPUPPSBND =	383.2	VPLWPSBND =	253.2
BVCP =	221.9	CVCP =	-0.1549	DVCP =	0.4605E-04	VHCUPBND =	600.0
HTFUSION =		LHTVAPOR =	0.6155E+06	HTCONRTN =		HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLMLIM =	3.050	UPFLMLIM =	17.00
TOXINHAL =	20.00	INHALCNC =	40.00	INHALTME =	1800.	LOTOXLIM =	0.5000E-04
LAETOX =		ABFLMTMP =		MOLRATIO =		AIRFUEL =	
MOLFRAC =						FLMETEMP =	
						BURNRATE =	
						UPTOXLIM =	0.5000E-03
						AVP =	9.041
						AVCP =	0.1068E+05
						VHCLOBND =	250.0
						LHCUPEND =	300.0
						INTFTIMP =	
						CRITPRES =	0.4600E+07
						BRHO =	-1.0000

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ACP CHEMNAME = ACETOPHENONE

PATHCODE = A T U X Y

MOLEWT = 120.2	NBP = 474.9	NFP = 292.9	CRITTEMP = 701.0	CRITPRES = 0.3800E+07
DENSITY = 1028.	DENSTEMP = 293.2	SHSTATE=L	ARHO = 1273.	BRHO = -0.9000
CRHO = 0.0000E+00	LDUPRND = 373.2	LDLWRND = 293.2	LQVISPNT = 0.1990E-02	LOVISTMP = 289.2
AVIS = -10.71	BVIS = 1299.	LVUPRND = 303.2	LVLWRND = 283.2	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPT = 1985.	LQHTCPTM = 293.2	AHC = 1985.	BHC =	LHCUPBND = 303.2
LHCLOBND = 283.2	SURFTENS = 0.3980E-01	SFTNTMP = 293.2	INTFTENS =	INTFTTMP = 300.0 (E)
SOLUBPNT = 0.5500	SOLUBTMP = 293.2	A =	B =	AVP = 9.282
BVP = 1723.	CVP = -72.16	VPUPRND = 518.2	VPLWRND =	AVCP = -0.2957E+05(E)
BVCP = 640.0 (E)	CVCP = -C.4070 (E)	DVCP = 0.9700E-04(E)	VHCUPBND = 400.0 (E)	VHCLOBND = 270.0 (E)
HTFUSION =	LHTVAPOR = 0.3650E+06(E)	HTCONBTN = -0.3454E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIV = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACR  CHEMNAME = ACRYLIC ACID
      MOLEWT = 72.06      NBP = 414.5      NFP = 285.5      CRITTEMP= 615.0      CRITPRES= 0.5800E+07
      DENSITY = 1050.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1371.      BRHO = -1.100
      CRHO = 0.0000E+00      LDUPRND= 333.2      LDLWRBND= 285.2      LQVISPT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 1926.      LQHTCPTM= 323.2      AHC = 1926.      LHCUPBND= 333.2
      LHCLOBND= 313.2      SURFTENS=      SFTNTMP=      INTFTIMP=
      SOLUBPNT=      SOLUSTMP=      A =      B =      AVP = 10.47
      BVP = 2270.      CVP = 0.4004E-01      VPUPRND= 343.2      VPLWRBND= 288.2      AVCP = 1742.
      BVCP = 319.0      CVCP = -0.2353      DVCP = 0.6992E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.6343E+06      HTCONSTN= -0.1884E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR= -0.1076E+07      LOFLMLIM= 2.400      UPFLMLIM=      BURNRATE= 0.2667E-04
      TOXINHAL=      INHALCNC=      INHALTIME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ACT   CHEMNAME = ACETONE
      PATHCODE = A P Q R S
      MOLECW = 58.08 NBP = 329.3 CRITTEMP = 508.0 CRITPRES = 0.4700E+07
      DENSITY = 791.0 DENSTEMP = 293.2 SHESTATE = L ARHO = 1089. BRHO = -0.9306
      CRHO = -0.3100E-03 LDUPREND = 323.2 LDWRBND = 183.2 LOVISBND = LOVISBND = LOVISBND =
      AVIS = BVIS = LVUPRBND = LVUPRBND = LQTHRCND = LQTHRCND =
      LTHCNTMP = ACON = BCON = LTCUPBND = LTCUPBND = LTCUPBND =
      LQHTCPPT = 2181. LQHTCPTM = 293.2 AHC = 1249. EHC = 3.182 LHCUPBND = 303.2
      LHCLOBND = 273.2 SURFTENS = SFTNTMP = SFTNTMP = INTFTENS = INTFTENS =
      SOLUBPNT = SOLUBTMP = A = B = AVP = 9.365
      BVP = 1280. CVP = -35.66 VPUPRBND = 363.2 VPLWRBND = 243.2 AVCP = 0.1398E+05
      BVCP = 226.5 CVCP = -0.7452E-01 DVCP = -0.2106E-05 VHCUPBND = 600.0 VHCLOBND = 250.0
      HTFUSION = 0.9839E+05 LHTVAPOR = 0.5108E+06 HTCOMBTN = -0.2850E+08 HTSOLUTN =
      HTREACTN = HTPOLYMR = LOFLNLIM = 2.600 UPFLMLIM = 12.80 BURNRATE = 0.6500E-04
      TOXINHAL = 1000. INHALCNC = 1000. INHALTME = 1800. LOTOXLIN = 0.5000E-02 UPTOXLIN = 0.1500E-01
      LATETOX = ABFLMTMP = MOLRATIO = FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ACY  CHEMNAME = ACETONE CYANOHYDRIN      PATHCODE = A  P  Q
MOLEWT = 85.11      NEP = 252.0      CRITTEMP=
DENSITY = 925.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO = 1223.      CRITPRES=
CRHO = 0.0000E+00      LDUPRBND= 308.2      LDLRBND= 288.2      LOVISBND= 300.0      BRHO = -1.0000
AVIS = 2900.      BVIS = 270.0      LVUPRBND= 300.0      LVLRBND= 300.0      LOVISTMP=
LTHCNTMP= 2900.      ACON = 270.0      BCON = 300.0      LTCUPBND= 300.0      LQTHRCND=
LQHTCPPT= 2900.      (E) LQHTCPTM= 300.0      (E) AHC = 2900.      (E) BHC = 300.0      LTCLOBND=
LHCLOBND= 270.0      (E) SURFTENS= 300.0      (E) AHC = 2900.      (E) BHC = 300.0      LHCUPBND= 300.0      (E)
SOLUBPNT= 270.0      (E) SURFTENS= 300.0      (E) AHC = 2900.      (E) BHC = 300.0      LHCUPBND= 300.0      (E)
BVP = 2743.      (E) CVP = 300.0      (E) VPUPRBND= 300.0      (E) VPLWRBND= 270.0      (E) AVCP = 10.96      (E)
BVCV = 383.0      (E) CVCV = -0.2190      (E) DVCP = 0.3970E-04      (E) VHCUPBND= 400.0      (E) VHCLOBND= 270.0      (E)
HTFUSION= 0.6172E+06      (E) HTCOVSTN= -0.2760E+08      (E) HTDECOMP= 12.00      HTSOLUTN= 0.5833E-03
HTREACTN= 0.6172E+06      (E) HTCOVSTN= -0.2760E+08      (E) HTDECOMP= 12.00      HTSOLUTN= 0.5833E-03
TOXINHAL= 0.6172E+06      (E) HTCOVSTN= -0.2760E+08      (E) HTDECOMP= 12.00      HTSOLUTN= 0.5833E-03
LATETOX = 0.6172E+06      (E) HTCOVSTN= -0.2760E+08      (E) HTDECOMP= 12.00      HTSOLUTN= 0.5833E-03
MOLFRAC = 0.6172E+06      (E) HTCOVSTN= -0.2760E+08      (E) HTDECOMP= 12.00      HTSOLUTN= 0.5833E-03

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ADA CHEMNAME = ADIPIC ACID PATHCODE = SS II

MOLECWT = 146.1	NBP =	NFP = 424.0	CRITTEMP=	CRITPRES=
DENSITY = 1360.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRSND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOSND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=	LHCLOSND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTEMP=	INTFTEMP=
SOLUBPNT= 1.500	SOLUBTMP= 288.1	A = -27.32	B = 0.1000	AVP = 12.24
BVP = 4368.	CVP = -0.1500	VPUPRBND= 543.1	VPLWRBND= 473.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOYSTN= -0.1916E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

ADN CHEMNAME = ADIPONITRILE

PATHCODE = A T U

MOLEWT =	108.0	=	NBP	=	563.0	=	NFP	=	275.5	=	CRITTEMP=	CRITPRES=
DENSITY =	950.0	=	DENSTEMP=	=	288.2	=	SHPSSTATE=L	=	ARHO	=	950.0	BRHO = 0.0000E+00
CRHO =	0.0000E+00	=	LDUPREND=	=	293.2	=	LDLWRBND=	=	283.2	=	LQVISPNT= 0.3000E-02(E)	LQVISTMP= 300.0 (E)
AVIS =	-11.17	=	(E) BVIS	=	1614.	=	(E) LVUPRBD=	=	300.0	=	(E) LVLWRBND= 280.0	(E) LQTHRCND= 0.1400 (E)
LTHCNTMP=	300.0	=	(E) ACON	=	0.1400	=	(E) BCON	=	0.0000E+00(E)	=	(E) LTCUPBND= 300.0	(E) LTCLOBND= 280.0 (E)
LQHTCPT=	2050.	=	(E) LQHTCPT=	=	290.0	=	(E) AHC	=	2050.	=	(E) BHC	= 0.0000E+00(E)
LHCLOBND=	280.0	=	(E) SURFTENS=	=		=	SFTNTEMP=	=	INTFTENS=	=	INTFTTMP=	LHCUPBND= 300.0 (E)
SOLUBPNT=		=	SOLUBTMP=	=		=	A	=	B	=	AVP	=
BVP =		=	CVP	=		=	VPUUPRBD=	=	VPLWRBND=	=	AVCP	=
BVCP =		=	CVCP	=		=	DVCP	=	VHCUPBND=	=	VHCLOBND=	
HTFUSION=		=	LHTVAPOR=	=	0.5590E+06(E)	=	HTCOMYSTN=	=	-0.3320E+08(E)	=	HTSOLUTN=	
HTREACTN=		=	HTPOLYMR=	=		=	LOFLMLIM=	=	UPFLMLIM=	=	BURNRATE=	
TOXINHAL=	50.00	=	INHALCNC=	=		=	INHALTME=	=	LOTOXLIM=	=	UPTOXLIM=	
LATETOX =		=	ABFLWTMP=	=		=	MOLRATIO=	=	AIRFUEL =	=	FLMETEMP=	
MOLFRAC =		=		=		=		=		=		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AEA  CHEMNAME = AMINOETHYLETHANOLAMINE      PATHCODE = A  P  Q
MOLEWT = 104.2      NBP = 516.0      CRITTEMP=
DENSITY = 1028.      DENSTEMP= 298.2      SHPSTATE=L      ARHO = 1050.      CRITPRES=
CRHO = 0.0000E+00      LDUPRBDN= 303.2      LDLWRBND= 288.2      LQVISPT=      LQVISTMP=      BRHO = 0.0000E+00
AVIS =      BVIS =      LVUPRBDN=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2700.      (E) LQHTCPTM= 290.0      (E) AHC = 2700.      (E) SHC =      LHCUPEND= 300.0      (E)
LHCLOBND= 270.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.42
BVP = 3310.      CVP = 0.4004E-01      VPUPRBDN= 473.2      VPLWRBND=      AVCP = 0.4610E+05(E)
BVCP = 475.0      (E) CVCP = -0.2200      (E) DVCP = 0.0000E+00(E)      VHCUPBND= 400.0      (E) VHCLOBND= 250.0      (E)
HTFUSION=      LHTVAPOR= 0.4850E+06(E)      HTCCMSTN= -0.2870E+08(E)      HTDECOMP=      HTSOLUTN= -0.1000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AFM CHEMNAME = AMMONIUM FORMATE

PATHCODE = SS

MOLEWT = 63.06	NBP =	NFP = 389.0	CRITTEMP=	CRITPRES=
DENSITY = 1280.	DENSTEMP= 298.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRSND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPP7=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 153.0	SOLUBTMP= 293.1	A = -594.5	B = 2.550	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AFR  CHEMNAME = AMMONIUM FLUORIDE          PATHCODE = SS
MOLEWT = 37.04      NBP =
DENSITY = 1320.     DENSTEMP= 298.1
CRHO =              LDUPREND=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT= 82.20     SOLUBTMP= 293.1
BVP =              CVP =
BVCP =             CVCP =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL= 1.500     INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= 0.1700E+06
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTEMP=
ARHO =
LQVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B = 0.5200
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AGC  CHEMNAME = AMMONIUM GLUCONATE          PATHCODE = SS
MOLEWT = 213.0      NBP =                      NFP =
DENSITY = 1000.      (E) DENSTEMP = 293.1      CRITTEMP =
CRHO =              LDUPREND =                  ARHO =
AVIS =              BVIS =                      LQVISPT =
LTHCNTMP =          ACON =                      LVLWRBND =
LQHTCPPT =          LQHTCPTM =                  LTCUPBND =
LHCLOBND =          SURFTENS =                  EHC =
SOLUBPNT = 42.70    SOLUSTMP = 298.1          INTFTTMP =
BVP =              CVP =                      B =
BVCP =              CVCP =                      VPLWRBND =
HTFUSION =          LHTVAPOR =                  VHCUPBND =
HTREACTN =          HTPOLYMR =                  HTSOLUTN =
TOXINHAL =          INHALCNC =                  UPFLMLIM =
LATETOX =          ABFLMTMP =                  LOTOXLIM =
MOLFRAC =          MOLRATIO =                  AIRFUEL =
CRITPRES =
BRHO =
LQVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AID  CHEMNAME = AMMONIUM IODIDE          PATHCODE = SS
MOLEWT = 144.9      NBP =                NFP =
DENSITY = 2560.     DENSTEMP= 293.1      SHPSTATE=S
CRHO =             LDUPRND=              LDLWRND=
AVIS =             BVIS =                LVUPRND=
LTHCNTMP=          ACON =                BCON =
LQHTCPT=           LQHTCPT=              AHC =
LHCLOBND=          SURFTENS=             SFTNTEMP=
SOLUBPNT= 172.0     SOLUBTMP= 293.1      A = -97.30
BVP =              CVP =                 VPUPRND=
BVCP =             CVCP =                DVCP =
HTFUSION=          LHTVAPOR=             HTCONSTN=
HTREACTN=          HTPOLYMR=             LOFLMLIM=
TOXINHAL=          INHALCNC=             INHALTME=
LAFETOX =          ABFLMTMP=             MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 0.9200
AVCP =
VHCLOBND=
HTSOLUTN= 0.1000E+06
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ALA  CHEMNAME = ALLYL ALCOHOL          PATHCODE = A  P  Q
MOLEWT = 58.08      NBP = 370.1      CRITTEMP = 545.1      CRITPRES = 0.5800E+07
DENSITY = 852.0     DENSTEMP = 293.2  SHPSTATE=L      ARHO = 1089.      BRHO = -0.8000
CRHO = 0.0000E+00   LDUPRBND = 313.2  LDWRBND = 273.2   LQVISTMP =      LQVISTMP =
AVIS =             BVIS =             LVUPRBND =          LQTHRCND =      LQTHRCND =
LTHCNTMP =          ACON =             BCON =             LTCLOBND =      LTCLOBND =
LQHTCPPT = 2052.    LOHTCPTM = 293.2   AHC = -402.3      EHC = 8.374     LHCUPBND =      LHCUPBND = 353.2
LHCLOBND = 253.2    SURFTENS =          SFTNTEMP =          INTFTENS =      INTFTTMP =
SOLUBPNT =          SOLUBTMP =          A =              B = 11.76      AVP =           AVP =
BVP = 2460.         CVP = 0.4004E-01   VPUPRBND = 313.2  VPLWRBND = 263.2  AVCP = 0.2626E+05
BVCP = 181.3        CVCP = 0.0000E+00   DVCP =           VHCUPBND = 350.0  VHCLOBND =      VHCLOBND = 250.0
HTFUSION =          LHTVAPOR = 0.6866E+06   HTCOMBNTN = -0.3190E+08  HTDECOMP =      HTSOL, TN = 0.0000E+00(E
HTREACTN =          HTPOLYMR =          LOFLMLIM = 2.500   UPFLMLIM = 18.00  BURNRATE = 0.4500E-04
TOXINHAL = 2.000    INHALCNC = 5.000    INHALTME = 1800.   LOTOXLIN = 0.5000E-04  UPTOXLIM = 0.5000E-03
LATETOX =          ABFLTMP =          MOLRATIO =          AIRFUEL =      FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ALC  CHEMNAME = ALLYL CHLORIDE      PATHCODE = A  T  U  V  W
MOLECWT = 76.53      NBP      = 318.2      NFP      = 138.7      CRITTEMP= 514.2      CRITPRES= 0.4800E+07
DENSITY = 938.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1319.      BRHO      = -1.300
CRHO      = 0.0000E+00      LDUPREND= 313.2      LDWRBND= 253.2      LQVISPT= 0.3200E-03      LQVISTMP= 293.2
AVIS      = -10.92      BVIS      = 848.0      LVUPREND= 303.2      LVLWRBND= 283.2      LQTHRCND= 0.1500      (E)
LTHCNTMP= 300.0      (E)      ACON      = 0.1500      (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 310.0      (E)      LTCLOBND= 270.0      (E)
LOHTCPPT= 1298.      LOHTCPTM= 273.2      AHC      = 1298.      EHC      = 0.0000E+00      LHCUPBND= 293.2
LHCLOBND= 263.2      SURFTENS= 0.2890E-01      SFTNTMP= 288.2      INTFTENS= 0.5000E-01(E)      INTFTTMP= 290.0      (E)
SOLUBPNT= 0.3300      SOLUBTMP= 298.2      A      =      E      = 9.842
BVP      = 1540.      CVP      = 0.4004E-01      VPUPREND= 323.2      VPLWRBND= 273.2      AVCP      = 0.1566E+05
BVCP      = 243.3      CVCP      = -0.1340      DVCP      = 0.0000E+00      VHCUPBND= 500.0      VHCLOSND= 250.0
HTFUSION=      LHTVAPOR= 0.3882E+06(E)      HTCON:STN= -0.2268E+08      HTSOLUTN= -0.2000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.300      UPFLMLIM= 11.10      BURNRATE= 0.6830E-04(E)
TOXINHAL= 1.000      INHALCNC=      INHALTME=      LOTXCLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ALD  CHEMNAME = ALDRIN                                PATHCODE = II
MOLEWT = 364.9      NBP =                               NFP = 377.0
DENSITY = 1600.     DENSTEMP = 293.2                   SHPSTATE=S
CRHO =              LDUPREND =                          LDLWRBND=
AVIS =              BVIS =                               LVUPREND=
LTHCNTMP =          ACON =                               BCON =
LQHTCPPT =          LQHTCPTM =                           AHC =
LHCLOBND =          SURFTENS =                           SFTNTEMP=
SOLUBPNT = 0.1100E-05 SOLUBTMP = 293.2                 A =
BVP =              CVP =                               VPUPREND=
BVCP =              CVCP =                               DVCP =
HTFUSION =          LHTVAPOR =                           HTCONSTN=
HTREACTN =          HTPOLYMR =                           LOFLMLIM=
TOXINHAL = 0.1500E-01 INHALCNC = 0.6100E-01             INHALTME= 1800.
LATETOX =           ABFLMTMP =                           MOLRATIO=
MOLFRAC =
CRITPRES =
BRHO =
LQVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-03
FLMETEMP =
LOTOXLIM = 0.5000E-04
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ALF  CHEMNAME = ALUMINUM FLUORIDE          PATHCODE = II
MOLEWT = 83.98      NBP =
DENSITY = 2880.      DENSTEMP= 298.2
CRHO =
AVIS =
LTHCNTMP=
LHCLOBND=
SOLUBPNT= 0.5000
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTENP=
ARHO =
LQVISPAI=
LVLWRBND=
LTCUPBND=
EHC =
INTFTENP=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

NFP =
SHPSTATE=S
LDLWRBND=
LVUPRSD=
BCON =
AHC =
SFTNTEMP=
A =
VPUPRSD=
DVCP =
HTCOMSTN=
LOFLMLIM=
INHALTIME=
MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ALM  CHEMNAME = ALUMINUM SULFATE                PATHCODE = SS
MOLEWT = 666.4      NBP =      CRITTEMP=
DENSITY = 1700.     DENSTEMP= 293.1  ARHO =
CRHO =      LDUPRBD=      LQVISTMP=
AVIS =      BVIS =      LVLWRBND=
LTHCNTMP=      ACON =      LTCUPBND=
LQHTCPTM=      LQHTCPTM=      BHC =
LHCLOBND=      SURFTENS=      INTFTTMP=
SOLUBPNT= 38.50    SOLUSTMP= 298.1  AVP = 0.3000E-01
BVP =      CVP =      VPLWRBND=
BVCP =      CVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTSOLUTN= -0.5150E+05
HTREACTN=      HTPOLYMR=      BURNRATE=
TOXINHAL=      INHALCNC=      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      FLMETEMP=
MOLFRAC =      MOLRATIO=

```

MOLEWT =	375.1	=	NBP	=	NFP	=	346.0	=	CRITTEMP=	CRITPRES=
DENSITY =	1000.	=	(E) DENTEMP=	=	293.1	=	SHSTATE=S	=	ARHO	BRHO =
CRHO =		=	LDUPRBN=	=		=	LDLWRBN=	=	LQVISPT=	LQVISTMP=
AVIS =		=	BVIS	=		=	LVUPRBN=	=	LVLWRBN=	LQTHRCND=
LTHCNTMP=		=	ACON	=		=	BCON	=	LTCUPBN=	LTCLOBND=
LQHTCPPT=		=	LQHTCPTM=	=		=	AHC	=	BHC	LHCUPBN=
LHCLOBND=		=	SURFTENS=	=		=	SFTNTMP=	=	INTFTENS=	INTFTTMP=
SOLUBPNT=	61.00	=	SOLUBTMP=	=	273.1	=	A	=	B	AVP =
BVP =		=	CVP	=		=	VPUPRBN=	=	VPLWRBN=	AVCP =
BVCP =		=	CVCP	=		=	DVCP	=	VHCUPBN=	VHCLOBND=
HTFUSIGN=		=	LHTVAPOR=	=		=	HTCOMSTN=	=	HTDECOMP=	HTSOLUTN=
HTREACTN=		=	HTPOLYMR=	=		=	LOFLMLIM=	=	UPFLMLIM=	BURNRATE=
TOXINHAL=		=	INHALCNC=	=		=	INHALTME=	=	LOTOXLIM=	UPTOXLIM=
LARETOX =		=	ABFLWMTMP=	=		=	MOLRATIO=	=	AIRFUEL =	FLMETEMP=
MOLFRAC =		=		=		=		=		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
ALS  CHEMNAME = AMMONIUM LAURYL SULFATE      PATHCODE = A  P
MOLEWT = 283.0      NBP =
DENSITY = 1030.      DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

NFP =
SHPSTATE=L
LDLWRSD=
LVUPRSD=
BCON =
AHC =
SFTNTMP=
A =
VPUPRSD=
DVCP =
HTCOMSTN=
LOFLMLIN=
INHALTME=
MOLRATIO=

CRITTEMP=
ARHO =
LOVISPNT= 0.9000
LVLWRSD=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRSD=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTOXLIN=
AIRFUEL =

CRITPRES=
BRHO =
LOVISTMP= 298.1
LOTHRCND=
LTCLOCND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ALT	CHEMNAME = AMMONIUM LACTATE	PATHCODE = SS	
MOLEWT = 107.1	NBP =	NFP =	CRITPRES =
DENSITY = 1200.	DENSTEMP = 288.1	SHPSTATE = S	BRHO =
CRHO =	LDUPRBND =	LDLWPRBND =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VPUPRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LATETOX =	ABFLTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AMA		CHEMNAME = AMMONIA ANHYDROUS		PATHCODE = A B C K L M N O			
MOLEWT =	17.03	NBP =	239.8	NFP =	195.5	CRITPRES =	0.1127E+08
DENSITY =	682.0	DENSTEMP =	239.8	SHPSTATE=L		BRHO =	6.130
CRHO =	-0.1360E-01	LDUPRBND =	253.2	LDLWRBND =	195.2	LQVISTMP =	
AVIS =		BVIS =		LVUPRSND =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCLOBND =	
LQHTCPPT =	4480.	LQHTCPTM =	240.2	AHC =	3462.	LHCUPBND =	273.2
LHCLOBND =	213.2	SURFTENS =		SFTINTEMP =		INTFTTMP =	
SOLUBPNT =		SOLUBTMP =		A =		AVP =	10.15
BVP =	1233.	CVP =	0.0000E+00	VPUPRSND =	313.0	AVCP =	0.2730E+05
BVCP =	23.86	CVCP =	0.1717E-01	DVCP =	0.1172E-04	VHCLOBND =	250.0
HTFUSICN =		LHTVAPOR =	0.1369E+07	HTCOMBNTN =	-0.1859E+08	HTSOLUTN =	-0.5650E+06(E
HTREACTN =		HTPOLYMR =		LOFLMLIM =	15.50	BURNRATE =	0.1667E-04
TOXINHAL =	25.00	INHALCNC =	100.0	INHALTME =	1800.	UPTOXLIM =	
LAETOX =		ABFLMTMP =		MOLRATIO =	0.8750	(E) FLMETEMP =	
MOLFRAC =				(E) AIRFUEL =	6.050		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMB  CHEMNAME = AMMONIUM MOLYBDATE          PATHCODE = SS
      MOLEWT = 123.6      NBP =
      DENSITY = 1400.     DENSTEMP= 293.1     SHPSTATE=S
      CRHO =              LDUPREND=
      AVIS =              BVIS =
      LTHCNTMP=           ACON =
      LQHTCPPT=           LQHTCPTM=
      LHCLOBND=           SURFTENS=
      SOLUBPNT= 43.00     SOLUBTMP= 293.1     A =
      BVP =              CVP =
      BVCP =              CVCP =
      HTFUSION=           LHTVAPOR=
      HTREACTN=           HTPOLYMR=
      TOXINHAL= 0.9000    INHALCNC=
      LATETOX =           ABFLMTMP=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-03
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LQVISPNT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B =
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      UPFLMLIM=
      LOTOXLIM= 0.5000E-04
      AIRFUEL =
      MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AMC CHEMNAME = AMMONIUM CHLORIDE PATHCODE = SS

MOLEWT = 53.50	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1530.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTEMP =	INTFTEMP =
SOLUBPNT = 37.40	SOLUBTMP = 293.1	A = -79.86	B = 0.4000	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCOWSTN =	HTDECOMP =	HTSOLUTN = 0.3000E+05
HTREACTN =	HTPOLYMR =	LOFLMLIM =	LOFLMLIM =	BURNRATE =
TOXINHAL = 4.200	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LARETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AMD   CHEMNAME = AMMONIUM DICHROMATE          PATHCODE = SS  Z
MOLEWT = 252.1      NBP =                      NFP =
DENSITY = 2150.     DENSTEMP= 298.1            SHPSTATE=S
CRHO =              LDUPRBND=                  LDLWRBND=
AVIS =              BVIS =                     LVUPRBND=
LTHCNTMP=           ACON =                     LTCUPBND=
LQHTCPPT=           LQHTCPTM=                  BHC =
LHCLOBND=           SURFTENS=                  INTFTENS=
SOLUBPNT= 26.23     SOLUBTMP= 293.1            A = -129.4
BVP =              CVP =                      VPLWRBND=
BVCP =             CVCP =                     VHCUPBND=
HTFUSION=          LHTVAPOR=                  HTDECONP=
HTREACTN=          HTPOLYMR=                  LOFLMLIM=
TOXINHAL=          INHALCNC=                  INHALTME=
LATETOX =          ABFLMTMP=                  MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 0.5300
AVCP =
VHCLOBND=
HTSOLUTN= 0.9600E+05
BURNRATE=
UPTOXLIM=
FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMF  CHEMNAME = AMMONIUM SULFITE          PATHCODE = SS
MOLEWT = 134.2      NEP      =
DENSITY = 1100.      (E) DENSTEMP= 293.1
CRHO      =
AVIS      =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 61.30
BVP      =
BVCP      =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX  =
MOLFRAC  =

NFP      =
SHPSTATE=S
LDLWRBND=
LVUPRBND=
BCON     =
AHC      =
SFTNTEMP=
A         = -135.1
VPUPRBND=
DVCP      =
HTCOMBNTN=
LOFLWLIM=
INHALTME=
MOLRATIO=

CRITTEMP=
ARHO      =
LOVISIMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP       = 0.6700
AVCP      =
VHCLOBND=
HTSOLUTN= 0.4770E+05
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMH  CHEMNAME = AMMONIUM HYDROXIDE      PATHCODE = A  P  R  S
MOLEWT =      NBP =      DENSTMP= 293.2  CRITEMP=      CRITPRES=
DENSITY = 890.0  DENSTMP= 293.2  SHPSTATE=L  ARHO = 1064  BRHO = -0.6000
CRHO = 0.0000E+00  LDUPRND= 303.2  LDLWRND= 258.2  LQVISFNT=  LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLRND=  LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=  LTCLOBND=
LQHTCPPT= 4187.  LQHTCPTM= 293.2  AHC = 4187.  BHC = 0.0000E+00  LHCUPBND= 298.2
LHCLOBND= 273.2  SURFTENS=      SFTNTEMP=      INTFTERS=  INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VPUPRND=      VPLWRND=      AVCP = 0.2730E+05
BVCP = 23.86  CVCP = 0.1717E-01  DVCP = 0.1172E-04  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 1.000  INHALCNC= 100.0  INHALTIME= 1800.  LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMK  CHEMNAME = N-AMYL METHYL KETONE      PATHCODE = A  T  U
MOLEWT = 114.2      NBP = 424.7      CRITTEMP= 238.0      CRITPRES=
DENSITY = 817.0      DENSTEMP= 293.1      SHPSTATE=L      RHO = 1110.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBD= 298.1      LDLWRBD= 273.1      LQVISPNT= 0.8100E-03      LQVISTMP= 293.1
AVIS = -10.31      BVIS = 933.0      LVUPRBD= 298.1      LVLWRBD= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPRBD= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E)      LHCUPRBD= 293.1
LHCLOBND= 283.1      SURFTENS= 0.2617E-01      SFTNTEMP= 298.1      INTFTENS= 10.22
SOLUBPNT= 0.4300      SOLUBTMP= 293.1      A = 0.4300      B = 0.0000E+00      AVP = 0.1590E+05(E)
BVP = 2214.      CVP = -0.1500      VPUPRBD= 433.1      VPLWRBD= 293.1      AVCP = 0.1590E+05(E)
BVCP = 624.2      (E) CVCP = -0.3403      (E) DVCP = 0.7180E-04(E)      VHCUPRBD= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3460E+06      HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.110      UPFLMLIM= 7.900      BURNRATE=
TOXINHAL= 100.0      (E) INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AML CHEMNAME = AMYL ACETATE

PATHCODE = A T U

MOLEWT = 130.2	NBP = 419.0	NFP = 173.0	(E) CRITEMP =	CRITPRES =	
DENSITY = 876.0	DENSTEMP = 293.2	SHPSTATE=L	ARHO =	BRHO =	-1.0000
CRHO = 0.0000E+00	LDUPRBND = 298.2	LDLWRBND = 273.2	LOVISPNT =	LOVISTMP =	293.2
AVIS = -20.68	BVIS = 4041.	LVUPRBND = 303.2	LVLWRBND =	LQTHRCND =	0.1303
LTHCNTMP = 293.2	ACON = 0.1952	BCON = -0.2210E-03	LTCUPBND =	LTCLOBND =	283.2
LQHTCPPT = 1926.	LQHTCPTM = 293.2	AHC = 1129.	BHC =	LHCUPBND =	373.2
LHCLOBND = 273.2	SURFTENS = 0.2568E-01	SFTINTMP = 293.2	INTFTENS =	INTFTTMP =	290.0 (E
SOLUBPNT = 0.2000	SOLUBTMP = 293.2	A =	B =	AVP =	10.30
BVP = 2220.	CVP = 0.4004E-01	VPUPRBND = 423.2	VPLWRBND =	AVCP =	0.2315E+05
BVCP = 586.2	CVCP = -0.2428	DVCP = 0.1424E-04	VHCUPBND =	VHCLOBND =	250.0
HTFUSION =	LHTVAPOR = 0.3140E+06	HTCOMSTN = -0.3108E+08	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.100	UPFLMLIM =	BURNRATE =	0.6833E-04
TOXINHAL = 100.0	INHALCNC = 200.0	INHALTME = 1800.	LOTOXLIM =	UPTOXLIM =	
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMM  CHEMNAME = N-AMYL MERCAPTAN          PATHCODE = A  T  U
MOLEWT = 104.2      NBP      = 393.0      CRITPRES= 594.0      CRITTEMP= 0.3500E+07
DENSITY = 842.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1106.      BRHO      = -0.9000
CRHO      = 0.0000E+00      LDUPRBD= 303.1      (E) LVUPRBD= 293.1      LDWRBND= 273.1      LQVISTMP= 293.1
AVIS      = -12.91      (E) BVIS      = 2100.      (E) BCON      = 0.0000E+00(E) LTCUPBND= 293.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) AHC      = 677.6      (E) BHC      = 4.187      (E) LTCLOBND= 273.1
LQHTCPPT= 1926.      LQHTCPTM= 298.1      SURFTENS= 0.2680E-01      SFINTENS= 293.1      INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
LHCLOBND= 273.1      SOLUBTMP= 0.1500      CVP      = -0.1500      VPUPRBD= 393.1      VPLWRBND= 273.1      AVCP      = 0.1419E+06
SOLUBPNT= 2146.      CVP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPBND= 250.0      VHCLOBND= 250.0
BVP      = 0.0000E+00      CVCP      = 0.0000E+00      HTVAPOR= 0.3970E+06      HTCOMSTN= -0.3660E+08(E) HTDECOMP=
HTFUSION= 0.0000E+00      LHTVAPOR= 0.3970E+06      LOFLMLIM= 0.0000E+00      HTSOLUTN=
HTREACTN= 0.0000E+00      HTPOLYMR= 0.0000E+00      LOFLMLIM= 0.0000E+00      BURNRATE= 0.7849E-04
TOXINHAL= 0.0000E+00      INHALCNC= 0.0000E+00      INHALTME= 0.0000E+00      UPTOXLIM=
LAFETOX = 0.0000E+00      ABFLMTMP= 0.0000E+00      MOLRATIO= 0.0000E+00      FLMETEMP=
MOLFRAC = 0.0000E+00

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMN  CHEMNAME = AMMONIUM NITRATE          PATHCODE = SS
MOLEWT = 80.05      NBP =      NFP = 443.1
DENSITY = 1720.     DENSTEMP= 293.2      SHPSTATE=S
CRHO =      LDUPREND=
AVIS =      BVIS =
LTHCNTMP=      ACON =
LQHTCPT=      LQHTCPTM=
LHCLOBND=      SURFTENS=
SOLUBPNT=      SOLUBTMP=
BVP =      CVP =
BVCP =      CVCP =
HTFUSCN=      LHTVAPOR=
HTREACTN=      HTPOLYMR=
TOXINHAL=      INHALCNC=
LATETOX =      ABFLMTMP=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPT=
VPLWRBND=
VHCUPBND=
HTDECONP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =
B = 3.840
A = -930.9
VPUPREND=
DVCP =
HTCOWBTN=
LOFLMLIM=
INHALTME=
MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMR  CHEMNAME = AMMONIUM STEARATE          PATHCODE = A  P  SS
MOLEWT = 301.5      NBP =          CRITTEMP=
DENSITY = 1010.     DENSTEMP= 293.1  ARHO =
CRHO =             LDUPRBD=          LOVISTMP=
AVIS =             BVIS =           LVLWRBD=
LTHCNTMP=          ACON =           LTCLOBND=
LOHTCPPT=          LOHTCPTM=        LHCUPBND=
LHCLOBND=          SURFTENS=        INTFTTMP=
SOLUBPNT=          SOLUBTMP=        AVP  =
BVP  =             CVP  =           AVCV  =
BVCV  =            CVCV  =          VHCLOBND=
HTFUSION=          LHTVAPOR=        HTSOLUTN=
HTREACTN=          HTPOLYMR=        BURNRATE=
TOXINHAL=          INHALCNC=        UPTOXLIM=
LATETOX =          ABFLTMP=         FLMETEMP=
MOLFRAC =          MOLRATIO=        AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMS   CHEMNAME = AMMONIUM SULFATE                PATHCODE = SS
MOLEWT = 132.1      NBP      =      NFP      =
DENSITY = 1780.      DENSTEMP= 288.2      SHPSTATE=S
CRHO    =      LDUPRBND=      BVIS    =
AVIS    =      ACON    =      LQHTCPTM=
LTHCNTMP=      LQHTCPTM=      SURFTENS=
LHCLOBND=      SOLUBPNT=      SOLUBTMP=
BVP     =      CVP     =      CVCP    =
BVCP    =      LHTVAPOR=      HTPOLYMR=
HTFUSION=      HTREACTN=      TOXINHAL=
LAFETOX =      ABFLMTMP=      MOLFRAC =
CRITPRES=      CRITTEMP=      ARHO    =
BRHO    =      LQVISTMP=      LQTHRCND=
LTCLOBND=      LHCUPBND=      INTFTTMP=
AVP     =      AVCP    =      VHCLOBND=
HTSOLUTN=      BURNRATE=      UPTOXLIM=
FLMETEMP=      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMT  CHEMNAME = AMMONIUM THIOCYANATE      PATHCODE = A  P  SS
MOLEWT = 76.12      NSP = 433.0      CRITTEMP=
DENSITY = 1100.      (E) DENSTEMP= 293.1      ARHO =
CRHO =  LDUPREND=  SHPSSTATE=S      LOVISPT=
AVIS =  BVIS =  LVUPREND=  BCON =  LTCUPBND=  LTCLOBND=
LTHCNTMP=  ACON =  LQHTCPTM=  SFTNTEMP=  INTFTIMP=
LHCLOBND=  SURFTENS=  SOLUBTMP= 293.1      AVP =
BVP =  CVP =  VPUPREND=  VPLWRBND=  AVCP =
BVCP =  CVCP =  DVCV =  HTCONSTN=  VHCLOBND=
HTFUSIGN=  LHTVAPOR=  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTIME=  LOTCXLIN=  UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =
0.3100E+06
0.5000E-02
0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
AMY  CHENAME = N-AMYL CHLORIDE          PATHCODE = A T U
MOLEWT = 106.6      NBP = 381.0      NFP = 174.0      CRITTEMP=
DENSITY = 882.0      DENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1175.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 313.1      LDLWRBND= 273.1      LQVISPNT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPREND= 293.1      LVLWRBND= 273.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 293.1      LTCLOBND= 273.1
LQHTCPPT= 1717.      (E) LQHTCPTM= 293.1      AHC = 489.2      (E) BHC = 4.187      (E) LHCUPBND= 293.1
LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
SOLUBPNT=          A =          B =          AVP = 9.716      (E)
BVP = 1794.      (E) CVP = 0.5000E-01(E) VPUPREND= 383.1      VPLWRBND= 273.1      AVCP = 0.2199E+05(E)
BVCP = 456.4      (E) CVCP = -0.2415      (E) DVCP = 0.4940E-04(E) VHCUPBND= 300.0      VHCLOBND= 300.0
HTFUSION=          LHTVAPOR= 0.3200E+06(E) HTCOMBNTN= -0.3040E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.400      UPFLMLIM= 8.600      BURNRATE= 0.8183E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ANI  CHEMNAME = ISO-AMYL NITRITE  PATHCODE = A  T  U  V  W
MOLEWT = 117.1  NBP = 372.0  CRITPRES=
DENSITY = 871.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1164.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPREND= 298.1  LDLRBND= 283.1  LQVISPNT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS = -12.91  (E) BVIS = 2100.  (E) LVUPREND= 298.1  LVLWRBND= 283.1  LQTHRCND= 0.1861  (E)
LTHCNTMP= 293.1  ACON = 0.1861  (E) ECON = 0.0000E+00(E) LTCUPBND= 293.1  LTCLOBND= 283.1
LQHTCPPT= 1884.  (E) LQHTCPTM= 293.1  AHC = 1884.  (E) BHC = 0.0000E+00(E) LHCUPBND= 293.1
LHCLOBND= 283.1  SURFTENS= 0.2000E-01(E) SFTNTMP= 293.1  INTFTENS= 0.4000E-01(E) INTFTMP= 293.1
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 13.17
BVP = 3036.  CVP = -0.1500  VPUPREND= 393.1  VPLWRBND= 293.1  AVCP = 0.1256E+06(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 350.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.4940E+06  HTCOMSTN= -0.2900E+08  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE= 0.5678E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
ANL  CHEMNAME = ANILINE
      MOLECW = 93.13      NBP = 457.4      CRITPRES = 0.5310E+07
      DENSITY = 1022.     DENSTEMP = 293.2  SHPSTATE=L  BRHO = -0.9192
      CRHO = 0.9000E-04   LDUPRBN = 373.2   LQVISPNT = 0.4300E-02  LQVISTMP = 293.2
      AVIS = -13.90      BVIS = 2477.     LVLWRBND = 273.2     LQTHRCND = 0.1779
      LTHCNTMP = 293.2    ACON = 0.3314    BCON = -0.5233E-03   LTCLOBND = 283.2
      LQHTCPPT = 2072.   LQHTCPTM = 293.2    AHC = 1041.        LHCUPBND = 323.2
      LHCLOBND = 273.2   SURFTENS = 0.4550E-01  SFINTEMP = 293.2    INTFTTMP = 293.2
      SOLUBPNT = 3.700   SOLUBTMP = 303.1    A =              B = 12.06
      BVP = 3090.        CVP = 0.4004E-01   VPUPRBN = 373.2     VPLWRBND = 283.2
      BVCP = 636.4       CVCP = -0.5024     DVCP = 0.1633E-03   VHCUPBND = 600.0
      HTFUSION =         LHTVAPOR = 0.4605E+06  HTCOMBTN = -0.3483E+08  HTSOLUTN =
      HTREACTN =         HTPOLYMR =          LOFLMLIM = 1.300    UPFLMLIM =
      TOXINHAL = 5.000   INHALCNC = 50.00      INHALTME = 1800.     LOTCXLIM = 0.5000E-04
      LATETOX =         ABFLMTMP =          MOLRATIO =
      MOLFRAC =
```

PROPERTY FILE VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ANP	CHENNAME = AMMONIUM NITRATE-PHOSPHATE MIXTURE	PATHCODE = SS			
MOLECW	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY	=	DENSTEMP=	293.1	SHPSTATE=S	BRHO =
CRHO	=	LDUPRBN	=	LDLWRBN	LQVISTMP=
AVIS	=	BVIS	=	LVUPRBN	LQTHRCND=
LTHCNTMP	=	ACON	=	BCON	LTCUPBN
LQHTCPPT	=	LQHTCPTM	=	AHC	LHCUPBN
LHCLOBND	=	SURFTENS	=	SFTNTMP	INTFTTMP=
SOLUBPNT	=	SOLUBTMP	=	A	AVP =
BVP	=	CVP	=	VPUPRBN	AVCP =
BVCP	=	CVCP	=	DVCP	VHCLOBND=
HTFUSION	=	LHTVAPOR	=	HTCOWSTN	HTSOLUTN=
HTREACTN	=	HTPOLYMR	=	LOFLMLIM	BURNRATE=
TOXINHAL	=	INHALCNC	=	INHALTME	UPTOXLIM=
LAFETOX	=	ABFLMTMP	=	MOLRATIO	FLMETEMP=
MOLFRAC	=				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ANT  CHEMNAME = N-AMYL NITRATE
      MOLECW = 133.0      NBP = 423.0      (E) NFP = 150.0      PATHCODE = A T U X Y
      DENSITY = 1000.      DENSTMP = 293.1      SHPSTATE=L
      CRHO = 0.0000E+00(E) LDUPREND = 298.1      LDLRBND = 283.1
      AVIS = BVIS = ACON = LOHTCPTM = SURFTENS = SOLUBTMP = A = B =
      LTHCNTMP = LQHTCPTM = LHCLOBND = LHCUPBND = LTCUPBND = LVLWRBND =
      LQTHRCND = LTCLOBND = LHCUPBND = INTFTTMP = AVP = AVCP =
      INTFTTMP = AVP = AVCP = VHCLOBND = HTSOLUTN =
      BURNRATE = UPTOXLIM = FLMETEMP =
      TOXINHAL = ABFLWTMP =
      LATETOX =
      MOLFRAC =
      MOLRATIO =
      LOFLMLIM =
      INHALTME =
      LOTOXLIM =
      UPFLMLIM =
      HTDECOMP =
      VHCUPBND =
      VPLWRBND =
      B =
      INTFTENS =
      BHC =
      LTCUPBND =
      LVLWRBND =
      LOVISPT =
      ARHO = 1293.      CRITPRES =
      (E) BRHO = -1.000      (E)

```

ANU	CHEMNAME = AMMONIUM NITRATE-UREA SOLUTION	PATHCODE = A	P
MOLECW	MOLECW = 1327.	(E) NFP = 273.0	CRITPRES = 0.0000E+00(E)
DENSITY	DENSITY = 1327.	SHPSATE=L	(E) BRHO = 298.1
CRHO	CRHO = 0.0000E+00(E)	LDLWREND= 293.1	LOVISTMP= 298.1
AVIS	AVIS = -20.01 (E)	BVIS = 4000.	LOTHRCND= 0.5815 (E)
LTHCNTMP	LTHCNTMP= 293.1	ACON = 0.5815	LTCLOBND= 273.1
LQHTCPT	LQHTCPT= 3768.	(E) LQHTCPTM= 293.1	LHCUPBND= 293.1
LHCLOBND	LHCLOBND= 273.1	SURFTENS=	INTFTTMP=
SOLUBPNT	SOLUBPNT=	SOLUBTMP=	AVP =
BVP	BVP =	CVP =	AVCP =
BVCP	BVCP =	CVCP =	VHCLOBND=
HTFUSION	HTFUSION=	LHTVAPOR=	HTSOLUTN= 0.0000E+00
HTREACTN	HTREACTN=	HTPOLYMR=	BURNRATE=
TOXINHAL	TOXINHAL=	INHALCNC=	UPTOXLIM= 0.5000E-02
LAFETOX	LAFETOX =	ABFLMTMP=	FLMETEMP=
MOLFRAC	MOLFRAC =		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AOL CHEMNAME = AMMONIUM OLEATE

PATHCODE = SS

MOLEWT = 299.5	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1000.	(E) DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRBND=	LOVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	EHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPRND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LALETEOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

CRITPRES=

BRHO =

1QV1STMP=

10TH EDITION

()
 ()
 ()
 ()
 ()
 ()
 ()
 ()

4

1

AVCP =

VHCL08ND=

HTSOLUTN=

BURNRATE=

UPTOX LIM=

FLMETEMP=

100

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

APB	CHEMNAME = AMMONIUM PENTABORATE	PATHCODE = SS	
MOLEWT = 272.2	NBP =	NFP =	CRITTEMP =
DENSITY = 1580.	DENSTEMP = 288.1	SHPSTATE = S	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISIMP =
AVIS =	BVIS =	LVUPRBND =	LQTHRCND =
LTHCNTMP =	ACON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTIMP =	INTFTIMP =
SOLUBPNT = 10.60	SOLUBTMP = 293.1	A =	AVP =
BVP =	CVP =	VPUPRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL = 0.8200	INHALCNC =	INHALTME =	UPTOXLIM =
LAETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
APC  CHEMNAME = ANTIMONY PENTACHLORIDE          PATHCODE = A  0
MOLECNT = 299.0      NBP      = 448.0      NFP      = 276.0
DENSITY = 2336.      DENSTEMP= 293.1      SHPSTATE=L
CRHO    = 0.0000E+00(E) LDUPRBN= 298.1      LDLWRBND= 283.1
AVIS    = -12.91 (E) BVIS    = 2100.      (E) LVUPRBN= 298.1      LVLWRBND= 283.1
LTHCNTMP= 293.1      ACON    = 0.1512 (E) BCON    = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC      = 1675.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.1500E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A      =          B      =
BVP     = 2511.      CVP      = -0.1500      VPUPRBN= 448.1      VPLWRBND= 283.1
BVCP    =          CVCP     =          DVCP     =          VHCURBND=
HTFUSION=          LHTVAPOR= 0.1600E+06      HTCONSTN=          HTSOLUTN= -0.4925E+06
HTREACTN=          HTPOLYMR=          LOFLMLIM=          BURNRATE=
TOXINHAL= 0.3750E-01      INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

```

CRITPRES=
          (E) BRHO = -1.000 (E)
          0.3200E-02(E) LOVISTMP= 293.1
          283.1      LQTHRCND= 0.1512 (E)
          298.1      LTCLOBND= 283.1
          0.0000E+00(E) LHCUPBND= 298.1
          INTFTTMP=
          AVP      = 10.61
          AVCP     =
          VHCLOBND=
          HTSOLUTN= -0.4925E+06
          BURNRATE=
          UPTOXLIM= 0.5000E-03
          AIRFUEL =
          FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

APE  CHEMNAME = AMMONIUM PERSULFATE          PATHCODE = SS
MOLEWT = 228.2      NBP =      DENSTEMP= 293.1      CRITTEMP=      CRITPRES=
DENSITY = 1980.      LDUPRND=      SHPSRATE=S      ARHO =      BRHO =
CRHO =      LQVISTMP=      LVLWRBND=      LQVISTMP=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LQTHRCND=      LQTHRCND=
LTHCNTMP=      ACON =      LTCUPBND=      LTCLOBND=      LTCLOBND=
LQHTCPT=      LQHTCPTM=      BHC =      LHCUPBND=      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTTMP=      INTFTTMP=
SOLUBNT= 77.00      SOLUBTMP= 293.1      A = -187.1      B = 0.9000      AVP =
BVP =      CVP =      VPUPRND=      VPLWRND=      VPLWRND=
BVCP =      CVCP =      DVCP =      VHCUPEND=      VHCUPEND=
HTFUSION=      LHTVAPOR=      HTCO:STN=      HTDECOMP=      HTSOLUTN= 0.1800E+06
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
APF  CHENAME = ANTIMONY PENTAFLUORIDE          PATHCODE = A  0
MOLEWT = 216.7      NBP = 416.0      NFP = 280.0      CRITTEMP=
DENSITY = 3150.      DENSTEMP= 283.1      SHPSTATE=L      ARHO = 3438.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND= 283.1      LDLWRSND= 283.1      LQVISPT= 0.8200E-03(E) LQVISTMP= 293.1
AVIS = -11.61      (E) BVIS = 1320.      (E) LVUPRSND= 298.1      LVLWRSND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCN = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.01      (E)
BVP = 2080      (E) CVP = -0.1500      (E) VPUPRSND= 423.1      VPLWRSND= 373.1      AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.1800E+06(E) HTCOMSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          HTDECOMP=          BURNRATE=
TOXINHAL= 0.5200E-01      INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

APP	CHEMNAME = AMMONIUM PHOSPHATE	PATHCODE = SS			
	MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =
	DENSITY = 1700.	(E) DENSTEMP =	293.1	SHSTATE = S	BRHO =
	CRHO =	LDUPRBN =	LDLWRSD =	LOVISPT =	LOVISMP =
	AVIS =	BVIS =	LVUPRSD =	LVLRSD =	LQTHRCND =
	LTHCNTMP =	ACON =	BCON =	LTCUPSD =	LTCLOBND =
	LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPEND =
	LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTNS =	INTFTTMP =
	SOLUBPNT = 68.90	SOLUBTMP =	293.1	A = -139.2	AVP =
	BVP =	CVP =	VPUPRSD =	VPLWRSD =	AVCP =
	BVCP =	CVCP =	DVCP =	VHCUPSD =	VHCLOBND =
	HTFUSCN =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSOLUIN =
	HTREACTN =	HTPOLYMR =	LOFLWLM =	UPFLMLIM =	BURNRATE =
	TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLM =	UPTOXLM =
	LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
	MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
APS      CHEMNAME = ACETYL PEROXIDE SOLUTION      PATHCODE = A   X   Y
MOLEWT = 118.1 (E) NBP = NFP = 265.0      CRITTEMP=
DENSITY = 1200. DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1493. (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRND= 303.1      LDLWRND= 273.1      LQVISPT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS = -12.91 (E) BVIS = 2100. (E) LVUPRND= 303.1      LVLWRND= 273.1      LQTHRCND= 0.1396 (E)
LTHCNTMP= 293.1      ACON = 0.1396 (E) BCON = 0.0000E+00(E) LTCUPRND= 303.1      LTCLOBND= 273.1
LQHTCPPT= 1758. (E) LQHTCPTM= 293.1      AHC = 1758. (E) BHC = 0.0000E+00(E) LHCUPEND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.3000E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.3000E-01(E) INTFTTMP= 293.1
SOLUBPNT= SOLUBTMP= A = B = AVP =
BVP = CVP = VPUPRND= VPLWRND= AVCP =
BVCP = CVCP = DVCP = VHCUPRND= VHCLOBND=
HTFUSION= LHTVAPOR= HTCOMBTN= -0.3660E+08(E) HTDECOMP= -0.1200E+06(E) HTSOLUTN=
HTREACTN= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= INHALCNC= LOTOXLM= UPTOXLM=
LATETOX = ABFLMTMP= AIRFUEL =
MOLFRAC = MOLRATIO= FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

APT CHEMNAME = ANTIMONY POTASSIUM TARTRATE PATHCODE = SS

MOLECWT = 334.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2600.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISPAT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBNBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOSND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTEMP=	INTFTEMP=
SOLUBPNT= 8.700	SOLUBTMP= 298.1	A =	AVP =	AVP =
BVP =	CVP =	VPUPRBNBND=	AVCP =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIN=	BURNRATE=	BURNRATE=
TOXINHAL= 0.3400E-01	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ARD	CHEMNAME = ARSENIC DISULFIDE	PATHCODE = II	
MOLEWT =	214.0	NBP =	838.0
DENSITY =	3500.	DENSTEMP =	293.1
CRHO =		LDUPRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.5200E-02	INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	580.0
		SHPSTATE =	S
		LDLWRBND =	
		LVUPRBND =	
		BCON =	
		AHC =	
		SFTNTEMP =	
		A =	
		VPUPRBND =	
		DVCP =	
		HTCONSTN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-04(E
		FLMETEMP =	
		CRITPRES =	
		BRHO =	
		LQVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ARF  CHEWNAME = ASPHALT BLENDING STOCK:ROOFERS FLUX      PATHCODE = A  T  U
MOLECW = NSP = DENSTMP = SHPSTATE = NFP = 316.0 (E) CRITTENP = CRITPRES =
DENSITY = 0.0000E+00(E) LDUPRBN = 350.0 (E) LDWRSND = 300.0 (E) LQVISPT = 1100. (E) BRHO = 0.0000E+00(E)
CRHO = -8.040 (E) BVIS = 2140. (E) LVUPRBN = 473.0 (E) LVLWRBN = 373.0 (E) LQTHRCND = 393.0 (E)
AVIS = 350.0 (E) ACON = 0.1400 (E) BCON = 0.0000E+00(E) LTCUPBN = 400.0 (E) LTCLOBND = 0.1400 (E)
LTHCNTMP = 2000. (E) LQHTCPTM = 373.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBN = 350.0 (E)
LQHTCPPT = 300.0 (E) SURETENS = 0.1000E-01(E) SFTNTMP = 350.0 (E) INTFTENS = 0.7000E-01(E) INTFTMP = 400.0 (E)
LHCLOBND = SOLUBPNT = A = B = AVP = 13.01 (E)
BVP = 4062. (E) CVP = 0.0000E+00(E) VPUPRBN = 470.0 (E) VPLWRBN = 370.0 (E) AVCP =
BVCP = CVCN = DVCN = VHCLOBND =
HTFUSION = LHTVAPOR = HTCOMSTN = -0.3900E+08(E) HTDECOMP = HTSOLUTN =
HTREACTN = LOPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
TOXINHAL = INHALCNC = INHALTME = LOTOXLM = 0.5000E-03 UPTOXLM = 0.5000E-02
LAFETOX = ABFLNTMP = MOLRATIO = AIRFUEL = FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
      ARL  CHEMNAME = ACROLEIN
      MOLEWT = 56.10      NBP = 326.0      PATHCODE = A P Q R S Z
      DENSITY = 843.0      DENSTEMP= 293.1      SHPSTATE=L      NFP = 186.0      CRITTEMP= 527.0      (E) CRITPRES= 0.5080E+07(E)
      CRHO = 0.0000E+00      LDUPRBD= 373.1      LDWLRND= 263.1      LDVPRSD= 333.1      LOVISPT= 0.3600E-03      LQVISTMP= 293.1      BRHO = -0.6600
      AVIS = -10.57      BVIS = 770.0      LVUPRSD= 333.1      LVLWRBD= 253.1      LOTHRCND= 0.2117      LQVISTMP= 293.1
      LTHCNTMP= 293.1      ACON = 0.4242      BCON = -0.7269E-03      LTCUPBD= 353.1      LTCLOBND= 253.1      LHCUPBD= 353.1
      LQHTCPPT= 2257.      LQHTCPTM= 293.1      AHC = 1704.      BHC = 1.884      INTFTENS= 0.3500E-01(E)      INTFTTMP= 293.1
      LHCLOBND= 253.1      SURFTENS= 0.2400E-01      SFTNTMP= 293.1      INTFTENS= 0.3500E-01      AVP = 9.880
      SOLUBPNT= 21.00      SOLUBTMP= 293.1      A = 6.342      B = 0.5000E-01      AVCP = 0.1884E+05
      BVP = 1530.      CVP = 0.5000E-01      VPUPRSD= 373.1      VPLWRBD= 273.1      VHCLOBND= 300.0
      BVCP = 154.9      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBD= 500.0      HTSOLUTN=
      HTFUSION=      LHTVAPOR= 0.5020E+06      HTCOMSTN= -0.2900E+08      HTDECOMP=
      HTREACTN=      HTPOLYMR= -0.1200E+06(E)      LOFLMLIM= 2.800      UPFLMLIM= 31.00      BURNRATE= 0.6346E-04
      TOXINHAL= 0.1000      INHALCNC= 0.5000      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E)
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ART  CHEMNAME = ARSENIC TRISULFIDE          PATHCODE = II
MOLECWT = 246.0      NBP      =      NFP      = 573.0
DENSITY = 3430.      DENSTEMP= 293.1      SHPSTATE=S
CRHO    =            LDUPRND=
AVIS    =            BVIS    =            LVUPRND=
LTHCNTMP=            ACON    =            BCON    =
LQHTCPPT=            LQHTCPTM=            AHC      =
LHCLOBND=            SURFTENS=            SFTNTMP=
SOLUBPNT=            SOLUBTMP=            A        =
BVP      =            CVP      =            VPUPRND=
BVCP     =            CVCP     =            DVCP     =
HTFUSION=            LHTVAPOR=            HTCOMSTN=
HTREACTN=            HTPOLYMR=            LOFLMLIM=
TOXINHAL= 0.4560E-01  INHALCNC=            INHALTME=
LATETOX  =            ABFLMTMP=            MOLRATIO=
MOLFRAC  =
CRITPRES=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP       =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04(E
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ASA  CHEMNAME = ARSENIC ACID                PATHCODE = SS
MOLEWT = 229.8      NBP =          NFP =          CRITTEMP=
DENSITY = 2200.     DENSTEMP= 293.1  SHPSTATE=S    ARHO =          BRHO =
CRHO =              LDUPRBND=          LDLWRBND=    LQVISPNT=    LQVISTMP=
AVIS =              BVIS =              LVUPRBND=    LVLWRBND=    LQTHRCND=
LTHCNTMP=          ACON =              BCON =          LTCUPBND=    LTCLOSND=
LQHTCPPT=          LQHTCPTM=          AHC =              LHCUPBND=    LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=        INTFTENS=    INTFTTMP=
SOLUBPNT= 40.00    SOLUBTMP= 293.1  A = 26.54      B = 0.4600E-01  AVP =
BVP =              CVP =              VPUPRBND=        VPLWRBND=    AVCP =
BVCP =              CVCP =              DVCP =              VHCUPBND=    VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN=        HTDECOMP=    HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLIM=        UPFLWLIM=    BURNRATE=
TOXINHAL= 0.4900E-01  INHALCNC=          INHALTME=        LOTOXLIM=    UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=        AIRFUEL =      FLMETEMP=
MOLFRAC =
*****

```

7100.

0.5000E-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ASC  CHEMNAME = ANISOYL CHLORIDE      PATHCODE = A  O  X
MOLEWT = 171.6      NEP = 535.0      NFP = 295.0      CRITTEMP=
DENSITY = 1260.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1553.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLWRBND= 273.1      LOVISPNT= 0.3400E-02(E) LOVISTMP= 293.1
AVIS = -13.01      (E) BVIS = 2150.      (E) LVUPREND= 293.1      LVLWRBND= 273.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 293.1      LTCLOBND= 273.1
LOHTCPPT= 1673.      (E) LOHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 10.11      (E)
SOLUBPNT= 273.1      SOLUBTMP= 293.1      A = 10.11      (E)
BVP = 2730.      (E) CVP = -0.1500      (E) VPUPREND= 533.1      VPLWRBND= 473.1      AVCP = 10.11      (E)
BVCP = 2730.      (E) CVCV = 10.11      (E)
HTFUSION= 2730.      (E) LHTVAPOR= 2730.      (E) HTDECCMP= -0.2440E+08(E) HTSOLUTN= 0.2100E+06(E)
HTREACTN= 2730.      (E) LHTPOLYMR= 2730.      (E) LOFLWLIM= 2730.      (E) UPFLWLIM= 2730.      (E)
TOXINHAL= 2730.      (E) INHALCNC= 2730.      (E) INHALTME= 2730.      (E) LOTOXLIM= 2730.      (E)
LAFETOX = 2730.      (E) ABFLMTMP= 2730.      (E) MOLRATIO= 2730.      (E) AIRFUEL = 2730.      (E)
MOLFRAC = 2730.      (E)

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ASL CHEMNAME = AMMONIUM SILICOFLUORIDE PATHCODE = SS

MOLEWT = 178.1	NBP =	NFP =	CRITPRES=
DENSITY = 2000.	DENSTEMP= 293.1	SHPSATE=S	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT= 20.70	SOLUBTMP= 293.1	A = -102.4	AVP =
BVP =	CVP =	VPUPRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCONSTN=	HTSOLUTN= 0.2000E+06
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.3000	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

.....

ASM CHENNAME = AMMONIUM SULFAMATE PATHCODE = SS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ASP CHENNAME = ASPHALT

PATHCODE = A T U X Y

MOLECW =	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY = 1080.	(E) DENSTEMP= 298.2		SHSTATE=L		ARHO =	BRHO =
CRHO =	LDUPRND=		LDLWRSND=		LQVISPT=	0.7500E-01(E) LQVISTMP= 393.0 (E)
AVIS = -8.040	(E) BVIS = 2140.		(E) LVUPRSND= 473.0	(E) LVLWRBND=	373.0 (E) LQTHRCND=	0.1400 (E)
LTHCNTMP= 350.0	(E) ACON = 0.1400		(E) BCON = 0.0000E+00(E) LTCUPBND=	400.0 (E) LTCLOBND=	350.0 (E)	
LQHTCPPT= 2000.	(E) LQHTCPTM= 373.0		(E) AHC = 2000.	(E) BHC =	0.0000E+00(E) LHCUPBND=	400.0 (E)
LHCLOBND= 300.0	(E) SURFTENS= 0.1000E 01(E) SFTNTMP=		350.0	(E) INTFTENS=	0.7000E-01(E) INTFTMP=	350.0 (E)
SOLUBPNT=	SOLUBTMP=		A =	B =	AVP =	13.01 (E)
BVP = 4062.	(E) CVP = 0.0000E+00(E) VPUPRSND=		470.0	(E) VPLWRBND=	370.0 (E) AVCP =	
BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR=		HTCO:BTN= -0.3900E+08(E) HTDECOMP=		HTSOLUTN=	
HTREACTN=	HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-02 UPTOXLIM= 0.1500E-01
LATETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ASR  CHEMNAME = ASPHALT BLEND STOCK:STRAIGHT RUN RESIDUE  PATHCODE = A  T  U
MOLECHT =      NBP      =      DENSTEMP=      CRHO      =      CRITTEMP=      CRITPRES=
DENSITY =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
AVIS      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LTHCNTMP=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LQHTCPPT=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LHCLOBND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
SOLUBPNT=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
BVP      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
BVCP      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
HTFUSION=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
HTREACTN=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
TOXINHAL=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LAFETOX  =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
MOLFRAC  =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
NFP      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
SHPSSTATE=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LDLWRSND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LVUPRSND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
BCON      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
AHC      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
SFTNTMP=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
A      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
VPUPRSND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
DVCP      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
HTCOMSTN=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LOFLWLIM=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
INHALTME=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
ABFLMTMP=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
VPLWRSND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
VHCUPBND=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
HTSOLUTN=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
BURNRATE=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
LOTOXLIM=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
AIRFUEL  =      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
UPTOXLIM=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
FLMETEMP=      CRHO      =      CRHO      =      CRHO      =      CRHO      =      CRHO      =
0.0000E+00(E)  1100.  (E) BRHO      =      0.0000E+00(E)
0.7500E-01(E)  373.0  (E) LQTHRCND=      0.1400  (E)
400.0  (E) LTCLOBND=      350.0  (E)
0.0000E+00(E)  400.0  (E) LHCUPBND=      400.0  (E)
0.7000E-01(E)  350.0  (E) INTFTTMP=      350.0  (E)
AVP      =      13.01  (E)
370.0  (E) AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=      0.1500E-01
FLMETEMP=
0.5000E-02
AIRFUEL  =
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

AST  CHEMNAME = ARSENIC TRICHLORIDE          PATHCODE = A  0
      MOLEWT = 181.3      NBP = 403.0      NFP = 260.0      CRITTEMP=
      DENSITY = 2160.      DENSTEMP= 293.1      SHPSTATE=L      ARHO =
      CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLPREND= 273.1      LQVISPT=
      AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPREND= 298.1      LVLWREND=
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPEND=
      LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC = 1675.      (E) BHC =
      LHCLOBND= 273.1      SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.1      INTFTENS=
      SOLUBPNT=          SOLUBTMP=          A =          B =
      BVP = 2110.      (E) CVP = -0.1500      (E) VPUPREND= 403.1      VPLWREND=
      BVCP =          CVCP =          DVCP =          VHCUPEND=
      HTFUSION=          LHTVAPOR=          HTCOMBTN=          HTDECOMP=
      HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLWLIM=
      TOXINHAL= 0.6200E-01      INHALCNC=          INHALTME=          LOTOXLIM=
      LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
      MOLFRAC =
      CRITPRES=
      (E) BRHO = -1.000      (E)
      LOVISTMP= 293.1
      LQTHRCND= 0.1512      (E)
      LTCLOBND= 273.1
      LHCUPEND= 298.1
      INTFTTMP=
      AVP = 10.24      (E)
      AVCP =
      VHCLOBND=
      HTSOLUTN= -0.4200E+05(E)
      BURNRATE=
      UPTOXLIM=
      FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATA  CHEMNAME = ACETYLACETONE      PATHCODE = A  P  Q
MOLEWT = 100.1  NBP = 413.6  NFP = 249.7  CRITTEMP=
DENSITY = 975.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1024.  BRHO = -0.1000
CRHO = 0.0000E+00  LDUPREND= 313.1  LDWRBND= 273.1  LQVISPT= 0.8200E-03(E)  LQVISTMP= 293.1
AVIS = -11.61  (E)  BVIS = 1320.  (E)  LVUPRND= 298.1  LVLWRND= 283.1  LQTHRCND= 0.1524
LTHCNTMP= 303.1  ACON = 0.1524  BCON = 0.0000E+00  LTCUPRND= 303.1  LTCLOBND= 283.1
LQHTCPPT= 2303.  (E)  LQHTCPTM= 293.1  AHC = 2303.  (E)  BHC = 0.0000E+00(E)  LHCUPBND= 298.1
LHCLOBND= 283.1  SURFTENS= 0.3120E-01  SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 12.60  SOLUBTMP= 293.1  A = -72.41  B = 0.2900  AVP = 9.950
BVP = 2045.  CVP = -0.1500  VPUPRND= 423.1  VPLWRND= 283.1  AVCP = 0.1514E+05(E)
BVCP = 442.8  (E)  CVCP = -0.2585  (E)  DVCP = 0.5778E-04(E)  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3790E+06(E)  HTCOMBNTN= -0.2570E+08  HTDECOMP=  HTSOLUTN= -0.2700E+05
HTREACTN=  HTPOLYMR=  LOFLMLIM= 2.400  UPFLMLIN= 11.60  BURNRATE= 0.6012E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMTTEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATC  CHEMNAME = ALLYLTRICHLOROSILANE      PATHCODE = A  0
MOLEWT = 175.5      NBP = 389.0      NFP =
DENSITY = 1215.      DENSTEMP= 293.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWREND= 273.1      LQVISPT= 1508.      (E) BRHO = -1.000      (E)
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPREND= 303.1      LVLWREND= 273.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPREND= 303.1      LTCLOBND= 273.1
LQHTCPPT= 2093.      (E) LQHTCPTM= 293.1      AHC = 2093.      (E) EHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2000E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUSTMP=          A =          B =
BVP = 2051.      CVP = 0.5000E-01      VPUPREND= 388.1      VPLWREND= 253.1      AVCP = 0.1047E+06(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 350.0      VHCLOBND= 300.0
HTFUSION=          LHTVAPOR= 0.2300E+06      HTCOMBNTN= -0.1200E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLWLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
CRITTEMP=
ARHO =
LQVISPT=
LVLWREND=
LTCUPREND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 10.28
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE= 0.3674E-04
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ATF	CHEMNAME = AMMONIUM THIOSULFATE	PATHCODE = A P SS		
MOLECW = 148.2	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2000.	DENSTEMP = 293.1	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LOVISPNT =	LOVISIMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFINTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ATH CHEMNAME = ANTHRACENE PATHCODE = II

MOLEWT = 178.2	NBP = 614.4	NFP = 489.7	CRITTEMP =	CRITPRES =
DENSITY = 1240.	DENSTEMP = 293.1	SHPSATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPTP =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.3980E+08	HTDECCMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLVLIM =	UPFLVLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LARETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATM  CHEMNAME = ANTIMONY TRICHLORIDE      PATHCODE = RR
MOLECWT = 228.0      NBP = 495.0      NFP = 346.0      CRITPRES=
DENSITY = 3140.      DENSTEMP= 293.1      SHPSTATE=S      CRITTEMP=
CRHO =              LDUPRBND=              LDWSPBND=      ARHO =
AVIS =              BVIS =              LVUPRBND=      LOVISPT=
LTHCNTMP=          ACON =              BCON =              LTCLOBND=
LQHTCPPT=          LQHTCPTM=              AHC =              LHCUPBND=
LHCLOBND=          SURFTENS=              SFTNTEMP=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=              A =              AVP = 10.53
BVP = 2729.      CVP = -0.1500      VPURBND= 443.1      VPLWRBND= 383.1
BVCP =              CVCP =              DVCP =              VHCLOBND=
HTFUSION=          LHTVAPOR=              HTCOMSTN=          HTSOLUTN= -0.1600E+06
HTREACTN=          HTPOLYMR=              LOFLMLIM=          BURNRATE=
TOXINHAL= 0.4900E-01      INHALCNC=              INHALTME=          UPTOXLIM=
LATETOX =          ABFLMTMP=              MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATN      CHEMNAME = ACETONITRILE
      MOLECW = 41.05      NBP      = 354.8      NFP      = 227.5      CRITTEMP = 547.9      CRITPRES = 0.4830E+07
      DENSITY = 787.0      DENSTEMP = 293.2      SHPSATE=L      ARHO      = 1094.      BRHO      = -1.024
      CRHO      = -0.1400E-03      LDUPRBN = 353.2      LDLRBN = 228.2      LQVISPNT = LQVISTMP =
      AVIS      =          BVIS      =          LVUPRBN =          LVLWRBN = LQTHRCND =
      LTHCNTMP =          ACON      =          BCON      =          LTCUPBN = LTCLOBND =
      LQHTCPPT = 2261.      LQHTCPTM = 293.2      AHC      = 2261.      BHC      = 0.0000E+00      LHCUPBN = 303.2
      LHCLOBND = 283.2      SURFTENS =          SFTNTMP =          INTFTENS = INTFTTMP =
      SOLUBPNT =          SOLUBTMP =          A          =          B          = 9.198
      BVP      = 1279.      CVP      = -49.16      VPUPRBN = 383.2      VPLWRBN = 258.2      AVCP      = 0.2048E+05
      BVCP      = 119.7      CVCP      = -0.4480E-01      DVCP      = -0.3224E-05      VHCUPBN = 200.0      VHCLOBND = 250.0
      HTFUSION = 0.2177E+06      LHTVAPOR = 0.7285E+06      HTCONBTN = -0.3107E+08      HTDECOMP = HTSOLUTN =
      HTREACTN =          HTPOLYMR =          LOFLMLIM = 4.400      UPFLMLIM = 16.00      BURNRATE = 0.4500E-04
      TOXINHAL = 40.00      INHALCNC =          INHALTME =          LOTOXLIM = 0.5000E-04      UPTOXLIM = 0.5000E-03
      LAETOX   =          ABFLMTMP =          MOLRATIC =          AIRFUEL  =
      MOLFRAC  =
*****

```

MOLECWT =	197.8	NBP	=	730.0	NFP	=	588.0	CRITTEMP=	CRITPRES=				
DENSITY =	3700.	DENSTEMP=		293.1	SHSTATE=S			ARHO	=	BRHO	=		
CRHO	=	LDUPREND=			LDLWRBND=			LQVISPNT=		LQVISTMP=			
AVIS	=	BVIS	=		LVUPRBSND=			LVLWRBND=		LQTHRCND=			
LTHCNTMP=		ACON	=		BCON	=		LTCUPBND=		LTCLOBND=			
LQHTCPPT=		LQHTCPTM=			AHC	=		BHC	=	LHCUPBND=			
LHCLCBND=		SURFTENS=			SFINTEMP=			INTFTENS=		INTFTTMP=			
SOLUBPNT=	2.000	SOLUBTMP=		298.1	A	=	-18.87	B	=	0.7000E-01		AVP	=
BVP	=	CVP	=		VPUPRBSND=			VPLWRBND=		AVCP	=		
BVCP	=	CVCP	=		DVCP	=		VHCUPBND=		VHCLCBND=			
HTFUSION=		LHTVAPOR=			HTCOMSTN=			HTDECOMP=		HTSOLUTN=			
HTREACTN=		HTPOLYMR=			LOFLMLIM=			UPFLMLIM=		BURNRATE=			
TOXINHAL=		INHALCNC=			INHALTME=			LOTOXLIM=		UPTOXLIM=			
LAFETOX	=	ABFLWTMP=			MOLRATIO=			AIRFUEL	=	FLMETEMP=			

0.5000E-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATR  CHEMNAME = AMMONIUM TARTRATE          PATHCODE = SS
      MOLEWT = 184.0      NBP =              NFP =
      DENSITY = 1600.     DENSTEMP = 298.1    SHPSSTATE = S
      CRHO =              LDUPRBN =          LDLWRBN =
      AVIS =              BVIS =             LVUPRBN =
      LTHCNTMP =          ACON =             BCON =
      LQHTCPPT =          LOHTCPTM =          AHC =
      LHCLOBND =          SURFTENS =          SFTNTEMP =
      SOLUBPNT = 63.00    SOLUBTMP = 293.1    A = -200.8
      BVP =              CVP =              VPLWRBN =
      BVCP =              CVCP =             VHCUPBN =
      HTFUSIGN =          LHTVAPOR =          HTDECONP =
      HTRACTN =           HTPOLYMR =          UPFLMLIM =
      TOXINHAL =          INHALCNC =          LOTOXLIN =
      LATETOX =           ABFLMTMP =          AIRFUEL =
      MOLFRAC =
      CRITPRES =
      BRHO =
      LQVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPEND =
      INTFTIMP =
      AVP = 0.9000
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM =
      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ATS      CHEMNAME = N-AMYLTRICHLOROSILANE      PATHCODE = A  O
MOLEWT = 205.6      NBP = 433.0
DENSITY = 1137.      DENSTEMP = 298.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LDUPRND = 298.1      LDLPBND = 283.1      LOVISPT = 0.5700E-02(E) LQVISTMP = 293.1      (E) BRHO = -1.000      (E)
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPRND = 298.1      LVLWRSD = 283.1      LQTHRCND = 0.1512      (E)
LTHCNTMP = 298.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1      LTCLOBND = 283.1      LHCUPBND = 298.1      (E)
LQHTCPPT = 1884.      (E) LQHTCPTM = 298.1      AHC = 635.8      (E) BHC = 4.187      (E) INTFTTMP = 293.1      AVP = 8.310      (E)
LHCLOBND = 283.1      SURFTENS = 0.2000E-01(E) SFTNTMP = 293.1      INTFTENS = 293.1      B = 293.1      AVCP = 293.1      VHCLOBND = 0.4000E+06(E)
SOLUBPNT = 283.1      SOLUBTMP = 298.1      A = 433.1      VPUPRND = 433.1      VHCUPBND = 0.4175E-04
BVP = 1431.      (E) CVP = -0.1500      (E) VUPRND = 433.1      DVCP = 0.5000E-04      UPTOXLIM = 0.5000E-03
BVCP = 1431.      (E) CVP = -0.1500      (E) VUPRND = 433.1      DVCP = 0.5000E-04      UPTOXLIM = 0.5000E-03
HTFUSION = 298.1      LHTVAPOR = 0.2020E+06(E) HTCOMSTN = -0.1540E+08(E) HTDECOMP = 0.4000E+06(E)
HTREACTN = 298.1      HTPOLYMR = 298.1      LOFLMLIM = 0.4175E-04
TOXINHAL = 298.1      INHALCNC = 298.1      INHALTME = 0.5000E-04
LATETOX = 298.1      ABFLMTMP = 298.1      MOLRATIO = 0.5000E-04
MOLFRAC = 298.1      AIRFUEL = 0.5000E-04
*****

```

PATHCODE = SS

MOLECWt =	178.8	NBP	=	565.0	CRITTEMP=		CRITPRES=	
DENSITY =	4380.	DENSTEMP=	294.2	SHPSTATE=S	ARHO	=	BRHO	=
CRHO	=	LDPURBND=		LDLWRSND=	LQVISPT=		LQVISTMP=	
AVIS	=	BVIS	=	LVUPRSD=	VLWRBD=		LQTHRCND=	
LTHCNTMP=		ACON	=	BCON	LTCUPBD=		LTCLOEND=	
LQHTCPPT=		LQHTCPTM=		AHC	BHC	=	LHCUBND=	
LHCLGBND=		SURFTENS=		SFTNTMP=	INTFERS=		INTFTMP=	
SOLUBPNT=		SOLUBTMP=		A	E	=	AVP	=
BVP	=	CVP	=	VPUPRSD=	VPLWRBD=		AVCP	=
BVCP	=	CVCP	=	DVCP	VHCUPBD=		VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTCOMBTN=	HIDECONP=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIN=		BURNRATE=	
TOXINHAL=	0.6270E-01	INHALCNC=		INHALTME=	LOTOXLIM=	0.5000E-04	UPTOXLIM=	0.5000E-03
LATEFOX	=	ABFLMTMP=		MOLRATIO=	AIRFUEL	=	FLMETEMP=	
MOLFRAC	=							

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

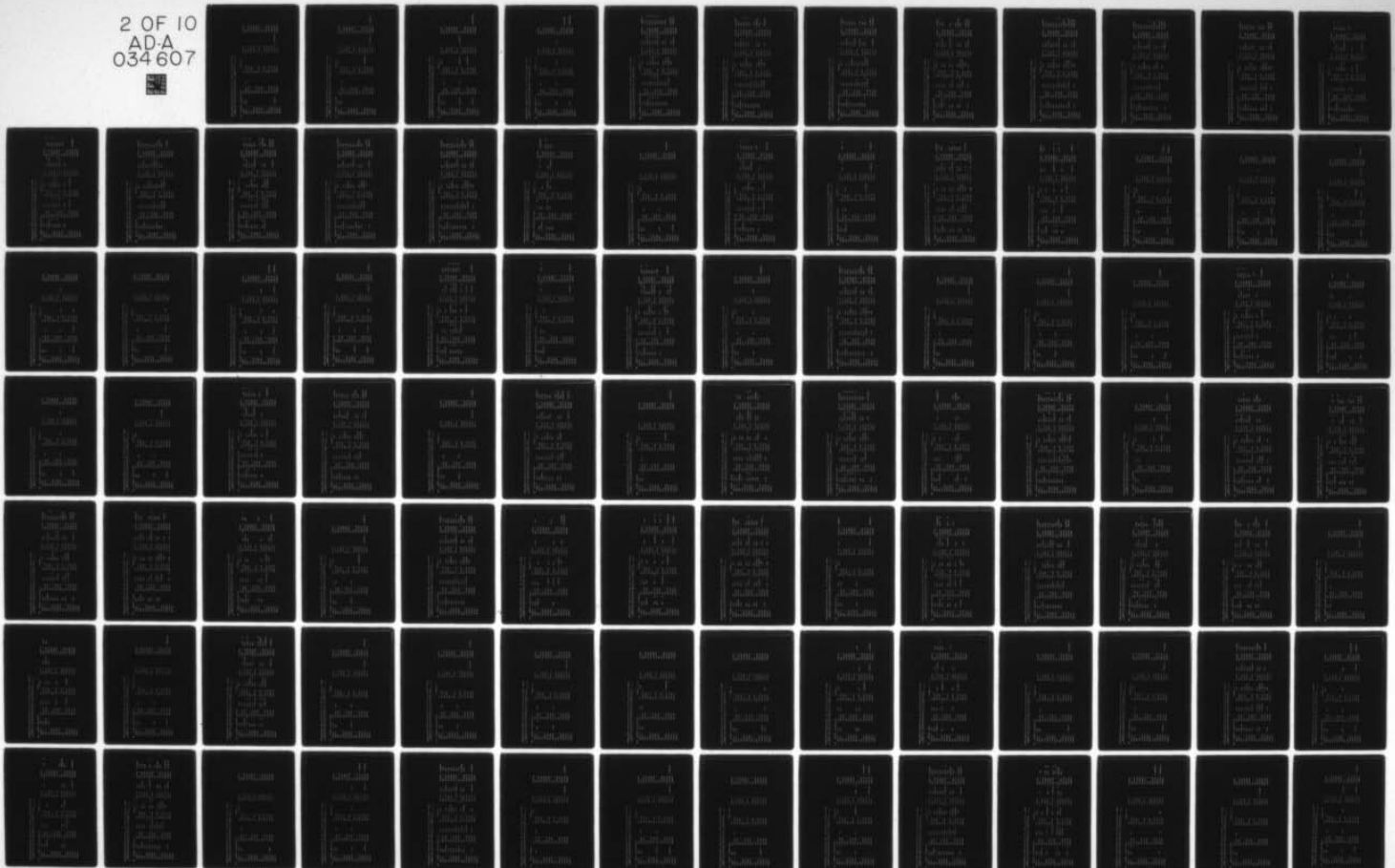
F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A
NL

2 OF 10
ADA
034 607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI. SYSTEM OF UNITS

ATX	CHEMNAME = ANTIMONY TRIOXIDE	PATHCODE = II	
MOLECW =	291.5	NBP =	CRITPRES =
DENSITY =	5200.	DENSTEMP = 298.1	BRHO =
CRHO =		LDUPREND =	LQVISTMP =
AVIS =		BVIS =	LQTHRCND =
LTHCNTMP =		ACON =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =	LHCUPBND =
LHCLOBND =		SURFTENS =	INTFTTMP =
SOLUBPNT =		SOLUBTMP =	AVP =
BVP =		CVP =	AVCP =
BVCP =		CVCP =	VHCLOBND =
HTFUSION =		LHTVAPOR =	HTSOLUTN =
HTREACTN =		HTPOLYMR =	BURNRATE =
TOXINHAL =	0.3800E-01	INHALCNC =	LOTOXLIM = 0.2000E-01(E)
LATETOX =		ABFLMTMP =	FLMETEMP =
MOLFRAC =		MOLRATIO =	
		INHALTME =	
		LOFLMLIM =	
		HTCON3TN =	
		DVCP =	
		VPUPREND =	
		A =	
		SFTNTMP =	
		AHC =	
		BCON =	
		LVUPREND =	
		LDLWRBND =	
		SHPSTATE = S	
		NFP =	
		CRITTEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ATZ CHEMNAME = ATRAZINE

PATHCODE = II

MOLECW = 215.7	NBP =	NFP = 348.0	CRITPRES =
DENSITY = 1200. (E)	DENSTEMP = 293.1	SHPSTATE = S	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VPUPRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2200E+08 (E)	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

AZM CHEMNAME = AZINPHOSMETHYL PATHCODE = II

MOLECW = 317.0	NBP =	NFP = 346.0	CRITPRES =
DENSITY = 1400.	DENSTEMP = 293.1	SHPSTATE = S	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LQTHRCND =
LTHCNTMP =	ACON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT = 0.3100E-02	SOLUBTMP = 293.1	A = -0.3501E-01	AVP =
BVP =	CVP =	VPUPRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2000E+08	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	BURNRATE =
TOXINHAL = 0.1400E-01	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-04(E
LAFETOX =	ABFLWTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BAC  CHEMNAME = BORIC ACID                PATHCODE = II  SS
MOLEWT = 61.83      NBP =
DENSITY = 1510.     DENSTEMP = 287.1      SHPSTATE=S
CRHO =              LDUPRSND=
AVIS =              BVIS =
LTHCNTMP=          ACON =
LQHTCPPT=          LQHTCPTM=
LHCLOBND=          SURFTENS=
SOLUBPNT= 4.900     SOLUBTMP= 293.1      A = -27.35      E = 0.1100
BVP =              CVP =
BVCP =             CVCP =
HTFUSION=          LHTVAPOR=
HTREACTN=          HTPOLYMR=
TOXINHAL= 3.625     INHALCNC=
LAFETOX =          ABFLHTMP=
MOLFRAC =          MOLRATIO=

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= -0.3700E+06
BURNRATE=
UPTOXLIM= 0.5000E-04(E
FLMETEMP=

CRITTEMP=
ARHO =
LOVISPT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BAD  CHEMNAME = ISO-BUTYRALDEHYDE          PATHCODE = A  P  Q
MOLECWT = 72.11      NBP = 337.3      NFP = 193.0      CRITTEMP= 513.0      CRITPRES= 0.4200E+07
DENSITY = 791.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1112.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPREND= 333.2      LDLWRBND= 273.2      LOVISPT= 0.4200E-03(E) LOVISTMP= 293.0 (E)
AVIS = -10.64 (E) BVIS = 838.0 (E) LVUPRBN= 313.0 (E) LVLWRBND= 233.0 (E) LQTHRCND= 0.1450 (E)
LTHCNTMP= 293.0 (E) ACON = 0.2130 (E) BCON = -0.2300E-03(E) LTCUPBND= 333.0 (E) LTCLOBND= 223.0 (E)
LQHTCPPT= 2176. (E) LQHTCPTM= 293.0 (E) AHC = 1564. (E) BHC = 2.090 (E) LHCUPBND= 303.0 (E)
LHCLOBND= 223.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5500E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT= 6.500      SOLUBTMP= 293.2      A = 8      B = 9.069
BVP = 1163.      CVP = -51.16      VPUPRBN= 373.2      VPLWRBND= 273.2      AVCP = 5024.
BVCP = 362.2      CVCP = -0.1633      DVCP = 0.1381E-04      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4103E+06      HTCOMBTN= -0.3221E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.000      UPFLMLIM= 10.00      BURNRATE= 0.8000E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BAM  CHEMNAME = N-BUTYLAMINE
      PATHCODE = A  P  Q  R  S
MOLECWT = 73.14  NBP = 350.6  CRITTEMP= 524.0  CRITPRES= 0.4160E+07
DENSITY = 740.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1033.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E)  LDUPREND= 273.1  LDWREND= 273.1  LQVISPNT= 0.6800E-03  LQVISTMP= 298.1
AVIS = -11.72  (E) BVIS = 1320.  (E) LVUPREND= 298.1  LVLWRBND= 283.1  LQTHRCND=
LTHCNTMP=  ACON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 2010.  (E) LQHTCPTM= 293.1  AHC = 2010.  (E) BHC = 0.0000E+00(E)  LHCUPBND= 298.1
LHCLOBND= 288.1  SURFTENS= 0.5311E-01  SFTNTMP= 293.1  INTFTENS=  INTFTMP=
SOLUBPNT=  SOLUTMP=  A =  B =  AVP = 9.061
BVP = 1210.  CVP = -52.30  VPUPREND= 353.1  VPLWRBND= 273.1  AVCP = 0.2500E+05(E)
BVCP = 389.0  (E) CVCP = -0.1576  (E) DVCP = 0.6753E-05(E)  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.4200E+06  HTCOMSTN= -0.4090E+08  HTDECMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.700  UPFLMLIM= 9.800  BURNRATE= 0.9669E-04
TOXINHAL= 5.000  INHALCNC= 5.000  INHALTME= 300.0  LOTOXLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BAN  CHEMNAME = N-BUTYL ALCOHOL      PATHCODE = A  P  Q
MOLEWT = 74.12      NBP = 390.9      NFP = 183.9      CRITTEMP= 563.0      CRITPRES= 0.4412E+07
DENSITY = 810.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 988.6      BRHO = -0.5152
CRHO = -0.3200E-03      LOUPRBD= 333.2      LDWRBND= 263.2      LOVISPNT= 0.2770E-02      LOVISTMP= 295.2
AVIS = -13.72      BVIS = 2311.      LVUPRBD= 353.2      LVLWRBND= 283.2      LQTHRCND= 0.1524
LTHCNTMP= 293.2      ACON = 0.2142      BCON = -0.2093E-03      LTCUPBND= 363.2      LTCLOBND= 283.2
LQHTCPPT= 2328.      LQHTCPTM= 293.2      AHC = -863.4      BHC = 10.89      LHCUPBND= 353.2
LHCLOBND= 283.2      SURFTENS= 0.2460E-01      SFTNTEMP= 293.2      INTFTENS= 0.5600E-01(E)      INTFTTMP= 300.0 (E)
SOLUBPNT= 7.800      SOLUBTMP= 293.2      A = 8      B = 12.24
BVP = 2778.      CVP = 0.4004E-01      VPUPRBD= 343.2      VPLWRBND= 283.2      AVCP = 0.1926E+05
BVCP = 351.7      CVCP = -0.1675      DVCP = 0.3056E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.1252E+06      LHTVAPOR= 0.5945E+06      HTCOMBNTN= -0.3310E+08      HTDECOMP= 11.20      HTSOLUTN= -0.1000E+05(E)
HTREACTN= 100.0      HTPOLYMR= 1.400      LOFLMLIM= 1800.      UPFLMLIM= 0.5000E-03      BURNRATE= 0.5333E-04
TOXINHAL= 150.0      INHALCNC= 1800.      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX = 150.0      ABFLMTMP= 1800.      MOLRATIO= 1800.      AIRFUEL = 0.5000E-02
MOLFRAC = 150.0      ABFLMTMP= 1800.      MOLRATIO= 1800.      AIRFUEL = 0.5000E-02
FLMETEMP= 150.0

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BAT CHEMNAME = TERT-BUTYL ALCOHOL

PATHCODE = A P

S
R
Q

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BBP CHEMNAME = BENZYL N-BUTYL PHTHALATE

PATHCODE = A X

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BBR CHEMNAME = BENZYL BROMIDE

PATHCODE = A O X Y

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BBZ CHEMNAME = BROMOBENZENE

PATHCODE = A X Y

MOLEWT = 157.0	NBP = 429.0	NFP = 242.6	CRITTEMP = 670.0	CRITPRES = 0.4520E+07
DENSITY = 1490.	DENSTEMP = 298.1	SHPSTATE=L	ARHO = 1902.	BRHO = -1.400
CRHO = 0.0000E+00	LDUPREND = 373.1	LDLWRBND = 273.1	LOVISINT = 0.1160E-02	LOVISTMP = 293.1
AVIS = -10.85	BVIS = 1200.	LVUPREND = 373.1	LVLWRBND = 278.1	LQTHRCND = 0.1116
LTHCNTMP = 293.1	ACON = 0.1271	BCON = -0.5234E-04	LTCUPBND = 373.1	LTCLOBND = 273.1
LOHTCPPT = 1005.	LOHTCPTM = 293.1	AHC = 619.9	BHC = 1.256	LHCUPBND = 373.1
LHCLOBND = 273.1	SURFTENS = 0.3600E-01	SFTNTMP = 293.1	INTFTENS = 0.3000E-01(E)	INTFTTMP = 293.1
SOLUBPNT = 0.5000E-01	SOLUBTMP = 303.1	A = -0.1530	B = 0.6700E-03	AVP = 10.10
BVP = 2186.	CVP = -0.1500	VPUPREND = 443.1	VPLWRBND = 283.1	AVCP = 0.1750E+05
BVCP = 273.4	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND = 500.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.2400E+06	HTCOMSTN = -0.1900E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE = 0.6346E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTXCLIN =	UPTOXLIN =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BCF  CHEMNAME = BENZYL CHLOROFORMATE      PATHCODE = A  O  X  Y
MOLEWT = 170.6      NBP = 425.0      CRITTEMP =
DENSITY = 1220.      DENSTEMP = 293.1      SHPSTATE=L      ARHO = 1473.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND = 298.1      LDLWRND = 283.1      LOVISPT = 0.2570E-02      LOVISTMP = 293.1
AVIS = -12.11      (E) BVIS = 1800.      (E) LVUPRND = 303.1      LVLWRND = 283.1      LQTHRCND = 0.1512      (E)
LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPRND = 293.1      LTCLOBND = 283.1
LQHTCPPT = 1884.      (E) LQHTCPTM = 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E) LHCUPRND = 298.1
LHCLOBND = 283.1      SURFTENS = 0.2500E-01(E) SFTNTMP = 293.1      INTFTENS =
SOLUBPNT =          SOLUBTMP =          A =          B =          AVP = 17.12      (E)
BVP = 5150.      (E) CVP = -0.1500      (E) VPUPRND = 423.1      VPLWRND = 373.1      AVCP = 0.1256E+06(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPRND = 350.0      VHCLOBND = 250.0
HTFUSION =          LHTVAPOR = 0.2100E+06(E) HTCOMSTN = -0.2400E+08(E) HTDECOMP =
HTREACTN =          HTPOLYMR =          LOFLMLIM =          UPFLMLIM =          BURNRATE = 0.6680E-04
TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLM = 0.5000E-04      UPTOXLIM = 0.5000E-03
LATETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BCL  CHEMNAME = BENZYL CHLORIDE
      MOLEWT = 126.6      NBP = 452.6      PATHCODE = A  O  X  Y
      DENSITY = 1100.      DENSTEMP= 298.1      NFP = 234.0      CRITTEMP= 684.0      (E) CRITPRES= 0.3910E+07(E)
      CRHO = 0.0000E+00      LDUPREND= 373.1      SHPSTATE=L      ARHO = 1458.      BRHO = -1.200
      AVIS = -11.12      BVIS = 1330.      LDUPREND= 373.1      LQVISPNT= 0.1380E-02      LQVISTMP= 293.1
      LTHCNTMP= 293.1      ACON = 0.1441      LVUPREND= 353.1      LVLWRBND= 283.1      LQTHRCND= 0.1303
      LQHTCPPT= 1369.      LQHTCPTM= 293.1      BCON = -0.4652E-04      LTCUPBND= 373.1      LTCLOBND= 273.1
      LHCLOBND= 273.1      SURFTENS= 0.3750E-01      AHC = 962.4      EHC = 1.382      LHCUPBND= 373.1
      SOLUBPNT= 0.3300E-02      SOLUBTMP= 298.1      SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.1
      BVP = 2360.      CVP = -0.1500      VPUPREND= 453.1      VPLWRBND= 293.1      AVCP = 0.2550E+05
      BVCP = 352.9      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAFOR= 0.2900E+06      HTCOMSTN= -0.2800E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      UPFLMLIM=
      TOXINHAL= 1.000      INHALCNC=      INHALTIME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BCN  CHEMNAME = N-BUTYL ACETATE          PATHCODE = A  T  U
MOLEWT = 116.2      NBP      = 399.0      NFP      = 199.7      CRITTEMP= 579.1      CRITPRES= 0.3100E+07
DENSITY = 875.0      DENSTEMP= 293.2      SHPS:ATE=L      ARHO      = 1168.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRBND= 323.2      LDLRBND= 273.2      LQVISPNT= 0.6930E-03      LQVISTMP= 298.2
AVIS      = -10.19      BVIS      = 870.0      LVUPRBND= 333.2      LVLWRBND= 283.2      LQTHRCND= 0.1372
LTHCNTMP= 293.2      ACON      = 0.2129      BCON      = -0.2559E-03      LTCURBND= 363.2      LTCLOBND= 283.2
LQHTCPPT= 1922.      LQHTCPTM= 293.2      AHC      = 1247.      SBC      = 2.303      LHCUPBND= 333.2
LHCLOBND= 273.2      SURFTENS= 0.2400E-01      SFTNTEMP= 293.2      INTFTENS= 0.5700E-01(E)      INTFTMP= 295.0      (E
SOLUBPNT= 1.000      SOLUBTMP= 293.2      A      =      B      =      AVP      = 10.18
BVP      = 2070.      CVP      = 0.4004E-01      VPUPRBND= 323.2      VPLWRBND= 273.2      AVCP      = 0.2152E+05
BVCP      = 502.4      CVCP      = -0.1926      DVCP      = 0.3475E-05      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3094E+06      HTCOMSTN= -0.3054E+08      HTDECCNP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 1.700      UPFLWLIM= 7.600      BURNRATE= 0.7333E-04
TOXINHAL= 150.0      (E) INHALCNC= 300.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/45/50 PAGE111

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BCP CHEMNAME = BOILER COMPOUND. LIQUID PATHCODE = A P

MOLEWT =	NBP =	377.0	(E) NFP =	CRITEMP=	CRITPRES=
DENSITY =	1480.	DENSTEMP=	293.1	SHPSRATE=L	ARHO =
CRHO =	0.0000E+00(E)	LDUPREND=	303.1	LDLWRSND=	283.1
AVIS =	BVIS =	LVUPRSND=	LVLRBND=	LOVISPNT=	LOVISTMP=
LTHCNTMP=	293.1	ACON =	0.5815	(E) BHC =	0.0000E+00(E)
LQHTCPPT=	2931.	(E) LQHTCPTM=	293.1	AHC =	2931.
LHCLOBND=	283.1	SURFTENS=	SFTNTEMP=	INTFTES=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	AVCP =
BVP =	CVP =	VPUPRSND=	VPLWRBND=	VHCLOBND=	HTSOLUTN=
BVCP =	CVCP =	DVCP =	HTCOMSTN=	UPFLWLIM=	BURNRATE=
HTFUSIGN=	LHTVAPOR=	LOFLWLIM=	INHALTME=	UPTOXLIM=	FLMETEMP=
HTREACTN=	HTPOLYMR=	ABFLNTMP=	MOLRATIO=		
TOXINHAL=	INHALCNC=				
LAFETOX =					
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BCR  CHEMNAME = BARIUM CHLORATE          PATHCODE = SS
MOLEWT = 332.0      NBP =      NFP = 687.0      (E) CRITTEVP=
DENSITY = 3180.     DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =             LDUPREND=             LDLWRBND=        LOVISPT=
AVIS =             BVIS =             LVUPREND=          LVLWRE'D=
LTHCNTMP=          ACON =             BCON =            LTCUPB'D=
LQHTCPPT=          LQHTCPTM=          AHC =            BHC =
LHCLOBND=          SURFTENS=          SFNTTEMP=        INTFTTNP=
SOLUBPNT= 20.35    SOLUBTMP= 273.1      A =            B =
BVP =             CVP =             VPUPREND=        VPLWRBND=
BVCP =            CVCP =            DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOMBETN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIN=
TOXINHAL= 0.3400E-01  INHALCNC=          INHALTME=      LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=      A'RFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= 0.8400E+05
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BCS  CHEMNAME = BUTYLTRICHLOROSILANE          PATHCODE = A  0

MOLEWT = 191.5      NBP = 415.0
DENSITY = 1160.      DENSTEMP= 293.1
CRHO = 0.0000E+00(E) LDUPREND= 298.1
AVIS = -12.91      BVIS = 2100.
LTHCNTMP= 293.1      ACON = 0.1512
LQHTCPPT= 1256.      (E) LQHTCPTM= 293.1
LHCLOBND= 283.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1
SOLUBPNT=           SOLUBTMP=
BVP = 1574.         CVP = -0.1500
BVCP =             CVCP =
HTFUSION=           LHTVAPOR= 0.1900E+06(E) HTCOMBNTN= -0.1000E+08(E) HTDECOMP=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITTEMP=           CRITPRES=
ARHO = 1502.        (E) BRHO = -1.160 (E)
LQVISPT= 0.3200E-02(E) LQVISTMP= 293.1
LVLRBND= 283.1      LQTHRCND= 0.1512 (E)
LTCUPBND= 298.1      LTCLOBND= 283.1
LHCUPEND= 298.1      LHCUPEND= 298.1
INTFTENS=           INTFTTMP=
E =                 AVP = 8.799
VPLWRBND= 413.1     AVCP =
VHCUPBND=           VHCLOBND=
HTSOLUTN=           HTSOLUTN=
BURNRATE= 0.3674E-04
UPTOXLIM=
AIRFUEL =
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BDE  CHEMNAME = BISPHENOL A DIGLYCIDYL ETHER      PATHCODE = A  X
MOLEWT = 340.0      NBP =      SHPSTATE=L      NFP =      CRITTEMP=      CRITPRES=
DENSITY = 1160.      DENSTEMP= 293.1      LDWRBND= 283.1      ARHO = 1453.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND= 298.1      LVUPRND=      LVLRBND=      LQVISTMP=      LQTHRCND=
AVIS =      BVIS =      ACON =      LQHTCPTM=      SURFTENS=      SFTNTEMP=      BHC =      LHCUPEND=      INTFTTMP=
LTHCNTMP=      LQHTCPTM=      SURFTENS=      SOLUBTMP=      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
LHCLOBND=      SURFTENS=      SOLUBTMP=      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
SOLUBPNT=      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
BVP =      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
BVCP =      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
HTFUSION=      LHTVAPOR=      HTCOM9TN= -0.3500E+08      HTDECOMP=      UPFLMLIM=      BURNRATE=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      LOTOXLM=      UPTOXLM=      0.1500E-01
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=      0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

BDI	CHEMNAME	=	BUTADIENE	INHIBITED
-----	----------	---	-----------	-----------

PATHCODE = A B C D E F G Z

MOLECWT =	54.09	NBP	=	262.8	NFP	=	164.3	CRITTEMP=	425.0	CRITPRES=	0.4320E+07
-----------	-------	-----	---	-------	-----	---	-------	-----------	-------	-----------	------------

```

DENSITY = 621.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 944.3  BRHO = -1.100

```

CRHO	=	0.0000E+00	LDUPREND=	293.2	LDLWEND=	193.2	LQVISP,T=	0.2000E-03	LQVISTMP=	268.8
------	---	------------	-----------	-------	----------	-------	-----------	------------	-----------	-------

AVIS	=	-10.57	BVIS	=	550.0	LVUPRND=	313.2	LVLWRB'D=	193.2	LQTHRCND=
------	---	--------	------	---	-------	----------	-------	-----------	-------	-----------

LTHCNTMP=	ACON	=	BCON	=	LTCUPEND=	LTCLOBND=
-----------	------	---	------	---	-----------	-----------

LQHTCPPT=	2345.	LQHTCPTM=	293.2	AHC	=	1003.	EH	=	4.605	LHCUPEND=	313.2
-----------	-------	-----------	-------	-----	---	-------	----	---	-------	-----------	-------

LHCLOBND=	193.2	SURFTENS=	0.1340E-01	SFTNTEMP=	293.2	INTFTENS=	0.6700E-01(E)	INTFTTMP=	295.0	(E)
-----------	-------	-----------	------------	-----------	-------	-----------	---------------	-----------	-------	-----

SOLUBPT=	A	=	B	=	AVP	=	8.984
----------	---	---	---	---	-----	---	-------

BVP	=	935.5	CVP	=	-33.56	VPUPRND=	303.2	VPLWRND=	223.2	AVCP	=	-5401.
-----	---	-------	-----	---	--------	----------	-------	----------	-------	------	---	--------

8VCP	=	349.6	CVCP	=	-0.2345	DVCP	=	0.5862E-04	VHCUPEND=	600.0	VHCL0BND=	250.0
------	---	-------	------	---	---------	------	---	------------	-----------	-------	-----------	-------

```
HTFUSION=      LHTVAFOR=      0.4187E+06      HTCON'BTN=      -0.4421E+08      HTDECOMP=      HTSOLUTN=
```

```
HTREACTN=      HTPOLYMR= -0.1277E+07      LOFLMLIM=      2.000      UPFLMLIM=      11.50      BURNRATE=      0.1333E-03
```

TOXINHAL=	1000.	INHALCNC=	INHALTME=	LOTOXLIN=	UPTOXLIM=
-----------	-------	-----------	-----------	-----------	-----------

```

LAFETOX =
ABFLMTMP=
MOLRATIO= 0.9286 (E) AIRFUEL = 13.96 (E) FLMETEMP=

```

MOLFRAC =

1

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BDO CHEMNAME = 1,4-BUTANEDIOL PATHCODE = A P Q
 MOLEWT = 90.12 NBP = 501.2 NFP = 293.3 CRITTEMP = 653.0 CRITPRES = 0.5000E+07
 DENSITY = 1017. DENTEMP = 293.2 SHPSTATE=L ARHO = 1310. BRHO = -1.000
 CRHO = 0.0000E+00 LDUPRBND = 353.2 LDLWRBND = 293.2 LOVISINT = LOVISIMP =
 AVIS = BVIS = LVUPRBND = LVLWRBND = LQTHRCND =
 LTHCNTMP = ACON = BCON = LTCUPBND = LTCLOBND =
 LQHTCPPT = 2190. (E) LQHTCPTM = 300.0 (E) AHC = 2190. (E) BHC = 0.0000E+00(E) LHCUPBND = 310.0 (E
 LHCLOBND = 295.0 (E) SURFTENS = SFTNTMP = INTFTENS = INTFTTMP =
 SOLUBTMP = SOLUBTMP = A = B = AVP = 12.27 (E
 BVP = 3637. (E) CVP = 0.0000E+00(E) VPUPRBND = 340.0 (E) VPLWRBND = 295.0 (E) AVCP = VHCLOBND =
 BVCP = CVCP = DVCP = HTCOMBNTN = -0.2770E+08(E) HTDECOMP = HTSOLUTN =
 HTFUSION = LHTVAPOR = HTPOLYMR = LOFLMLIM = UPFLMLIM =
 HTREACTN = INHALCNC = INHALTME = INHALTME = UPTOXLIN = 0.5000E-03 UPTOXLIN = 0.5000E-02
 TOXINHAL = ABFLMTMP = MOLRATIO = AIRFUEL =
 LATETOX = MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BEC CHEMNAME = BERYLLIUM CHLORIDE PATHCODE = RR

MOLEWT = 79.90	NBP = 793.0	NFP = 713.0	CRITPRES=
DENSITY = 1900.	DENSTEMP= 298.1	SHSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTSOLUTN= -0.2330E+07
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.5600E-03	INHALCNC= 0.7000E-02	INHALTME= 1800.	UPTOXLIN= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BEF	CHEMNAME = BERYLLIUM FLUORIDE	PATHCODE = SS	
MOLEWT =	47.00	NBP =	
DENSITY =	1990.	DENSTMP =	293.1
CRHO =		LDLWRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	50.00	SOLUBTMP =	298.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.1000E-02	INHALCNC =	0.1200E-01
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		INHALTME =	1800.
		MOLRATIO =	
		LOFLMLIM =	
		HTCOMBNTN =	
		DVCP =	
		VPUPRBND =	
		A =	
		SFTNTMP =	
		AHC =	
		BCON =	
		LVUPRBND =	
		LDLWRBND =	
		LOVISPT =	
		ARHO =	
		CRITTEMP =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIN =	
		FLMETEMP =	

10

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

10

100

TOXINHAL=

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/46/03 PAGE120

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BEN	CHEMNAME = BERYLLIUM NITRATE		PATHCODE = SS	
MOLECW	=	205.1	NBP	=
DENSITY	=	1560.	DENSTMP	=
CRHO	=		LDLWRBND	=
AVIS	=		LVUPRBN	=
LTHCNTMP	=		BCON	=
LQHTCPPT	=		AHC	=
LHCLOBND	=		SFTNTMP	=
SOLUBPNT	=	107.0	SOLUBTMP	=
BVP	=		CVP	=
BVCP	=		CVCP	=
HTFUSION	=		LHTVAPOR	=
HTREACTN	=		HTPOLYMR	=
TOXINHAL	=	0.2200E-03	INHALCNC	=
LATETOX	=		ABFLMTMP	=
MOLFRAC	=			=
			INHALTME	=
			LOFLMLIN	=
			HTCOMSTN	=
			DVCP	=
			VPUPRBN	=
			A	=
			SFTNTMP	=
			AHC	=
			BCON	=
			LVUPRBN	=
			LDLWRBND	=
			SHPSTATE	=
			NBP	=
			CRITPRES	=
			BRHO	=
			LQVISTMP	=
			LQTHRCND	=
			LTCLOBND	=
			LHCUPBND	=
			INTFTTMP	=
			AVP	=
			AVCP	=
			VHCLOBND	=
			HTSOLUTN	=
			BURNRATE	=
			UPTOXLIM	=
			FLMETEMP	=
			AIRFUEL	=
			LOTOXLIM	=
			UPFLMLIN	=
			HTDECONP	=
			VHCUPBND	=
			VPLWRBND	=
			B	=
			0.4200	=

CHEMNAME = BERYLLIUM OXIDE			PATHCODE = 11		
MOLECW	25.00	NBP	NFP	CRITENF	CRITPRES
DENSITY	3000.	DENSTEMP	SHPSTATE=S	ARHO	BRHO
CRHO		LDUPREND	LDLWRBND	LOVISPNT	LOVISTMP
AVIS		BVIS	LVUPRSDND	LVLWRBND	LQTHRCND
LTHCNTMP		ACON	BCON	LTCUPBND	LTCLOBND
LQHTCPPT		LQHTCPMT	AHC	BHC	LHCUPBND
LHCLOBND		SURFTENS	SFTNTMP	INTFTENS	INTFTTMP
SOLUBPNT		SOLUBTMP	A	S	AVP
BVP		CVP	VPUPRSDND	VPLWRBND	AVCP
BVCP		CVCP	DVCP	VHCUPBND	VHCLOBND
HTFUSION		LHTVAPOR	HTCONSTN	HTDECOMP	HTSOLUTN
HTREACTN		HTPOLYMR	LOFLMLIM	UPFLMLIM	BURNRATE
TOXINHAL	0.1800E-02	INHALCNC	0.2240E-01	INHALTME	1800.
LATETOX		ABFLMTMP	MOLRATIO	LOTOXLIM	UPTOXLIM
MOLFRAC				AIRFUEL	FLMETEMP

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BES	CHEMNAME = BERYLLIUM SULFATE	PATHCODE = SS	
MOLEWT =	177.1	NBP =	NFP =
DENSITY =	1710.	DENSTMP =	284.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	28.00	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.2500E-03	INHALCNC =	0.3200E-02
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		INHALTME =	1800.
		LOFLMLIM =	
		HTCOMSTN =	
		DVCP =	
		VPUPRND =	
		A =	-1.315
		B =	0.1000
		INTFTENS =	
		BHC =	
		LTCUPBND =	
		LVLWRBND =	
		LQVISPNT =	
		ARHO =	
		CRITTEMP =	
		CRITPRES =	
		LQTHRCND =	
		LQVISTMP =	
		BRHO =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	-0.3000E+05
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	
		0.5000E-04	
		AIRFUEL =	

MOLECWt =	290.8	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1891.	=	DENSTEMP=	292.2	=	SHPSSTATE=S	ARHO =	BRHO =
CRHO =		=	LDUPRBNd=		=	LDLWRBNd=	LQVISPNT=	LQVISTMP=
AVIS =		=	BVIS =		=	LVUPRBNd=	LVLWRBNd=	LQTHRCND=
LTHCNTMP=		=	ACON =		=	BCON =	LTCUPBNd=	LTCLOBND=
LQHTCPPT=		=	LQHTCPTM=		=	AHC =	EHC =	LHCUPBNd=
LHCLOBND=		=	SURFTENS=		=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	0.1000E-02	=	SOLUBTMP=	293.2	=	A =	B =	AVP =
BVP =		=	CVP =		=	VUPRBNd=	VPLWRBNd=	AVCP =
BVCP =		=	CVCP =		=	DVCP =	VHCUPBNd=	VHCLOBND=
HTFUSION=		=	LHTVAPOR=		=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		=	HTPOLYMR=		=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	0.3850E-01	=	INHALCNC=	0.7700E-01	=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =		=	ABFLWMTmp=		=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =		=			=			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN ST SYSTEM OF UNITS

BHP CHEMNAME = TERT-BUTYL HYDROPEROXIDE

PATHCODE = A P O Z

MOLECW = 90.12	NBP =	NFP = 238.0	CRITTEMP =	CRITPRES =
DENSITY = 880.0	DENSTEMP = 298.2	SHSTATE=L	ARHO = 1173.	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPRND = 303.2	LDLWRND = 283.2	LQVISPNT = 0.7000E-02	LOVISTMP = 298.2
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LOTHRCND = 0.1700 (E)
LTHCNTMP = 295.0 (E)	ACON = 0.1700 (E)	BCON = 0.0000E+00(E)	LTCUPRND = 295.0 (E)	LTCLOBND = 273.0 (E)
LOHTCPPT = 2000. (E)	LOHTCPTM = 295.0 (E)	AHC = 2000. (E)	BHC = 0.0000E+00(E)	LHCUPBND = 295.0 (E)
LHCLOBND = 273.0 (E)	SURFTENS = 0.3000E-01(E)	SFTNTMP = 295.0 (E)	INTFTENS = 0.5000E-01(E)	INTFTTMP = 295.0 (E)
SOLUBPNT = 8.000	SOLUBTMP = 293.2	A =	B =	AVP = 16.75 (E)
BVP = 4000. (E)	CVP = 0.0000E+00(E)	VPUPRND = 295.0 (E)	VPLWRSD = 273.0 (E)	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBNTN = -0.3000E+08(E)	HTDECONP = -0.1570E+07	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLVLIM =	LPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTCLIN = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BMA CHEMNAME = BENZYLTRIMETHYLAMMONIUM CHLORIDE PATHCODE = A P

MOLECW = 172.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1070.	DENSTEMP = 293.1	SHPSTATE=L	LRHO = 1363.	(E) BRHO = -1.000 (E
CRHO = 0.0000E+00(E)	LDUPRBND = 303.1	LDLWRBND = 283.1	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-03
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BMN  CHEMNAME = N-BUTYL METHACRYLATE      PATHCODE = A  T  U
MOLEWT = 142.2  NBP = 435.0  NFP = 273.0  (E) CRITTEMP=  CRITPRES=
DENSITY = 890.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1183.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPREND= 303.1  LDLPBND= 273.1  LDVISPT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS = -12.91  BVIS = 2100.  LVUPBND= 298.1  LVLWRBND= 288.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 288.1  LTCLOBND= 288.1
LQHTCPPT= 1926.  (E) LQHTCPTM= 293.1  AHC = 1926.  (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 288.1  SURFTENS= 0.3000E-01(E) SFINTEMP= 293.1  INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.685
BVP = 2040.  CVP = -0.1500  VPUPBND= 438.1  VPLWRBND= 293.1  AVCP =
BVCP =  CVCV =  DVCV =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTCO/3TN= -0.3440E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR= -0.4200E+06  LOFLMLIM= 2.000  (E) UPFLMLIM= 8.000  (E) BURNRATE= 0.8016E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BNT CHEMNAME = BARIUM NITRATE PATHCODE = SS

MOLEWT = 261.3	NBP =	NFP = 865.0	CRITPRES=
DENSITY = 3240.	DENSTMP=	296.1	BRHO =
CRHO =	LDUPREND=		LOVISTMP=
AVIS =	BVIS =		LOTHRCND=
LTHCNTMP=	ACON =		LTCLOBND=
LQHTCPFT=	LQHTCPTM=		LHCUPBND=
LHCLOBND=	SURFTENS=		INTFTTMP=
SOLUBPNT= 5.000	SOLUBTMP= 273.1	A = -74.21	AVP =
BVP =	CVP =		AVCP =
BVCP =	CVCP =		VHCLOBND=
HTFUSION=	LHTVAPOR=		HTSOLUTN= 0.8400E+05
HTREACTN=	HTPOLYMR=		BURNRATE=
TOXINHAL=	INHALCNC=		UPTOXLIM=
LATETOX =	ABFLMTMP=		FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BNZ  CHEMNAME = BENZENE
      MOLECW = 78.11      NBP = 353.3      PATHCODE = A T U V W
      DENSITY = 879.0      DENSTEMP = 293.2      SHPSTATE=L      CRITTEMP = 562.1      CRITPRES = 0.4890E+07
      CRHO = 0.0000E+00      LDUPREND = 353.2      LDLWRBND = 283.2      LQVISPNT = 0.6490E-03      LQVISTMP = 293.2      BRHO = -1.070
      AVIS = -11.71      BVIS = 1280.      LVUPRND = 323.2      LVLWRBND = 283.2      LQTHRCND = 0.1675
      LTHCNTMP = 293.2      ACON = 0.7812      BCON = -0.2093E-02      LTCUPBND = 343.2      LTCLOBND = 283.2
      LQHTCPPT = 1675.      LQHTCPTM = 293.2      AHC = 709.5      BHC = 3.349      LHCUPBND = 313.2
      LHCLOBND = 278.2      SURFTENS = 0.2890E-01      SFTNTMP = 293.2      INTFTENS = 0.3500E-01      INTFTTMP = 293.2
      SOLUBPNT = 0.1800      SOLUBTMP = 298.2      A = 9.031      AVP = 9.031
      BVP = 1211.      CVP = -52.36      VPUPRND = 373.2      VPLWRBND = 278.2      AVCP = 0.4396E+05
      BVCP = 523.3      CVCP = -0.3768      DVCP = 0.1047E-03      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION =      LHTVAPOR = 0.3940E+06      HTCOMSTN = -0.4060E+08      HTSOLUTN =
      HTREACTN =      HTPOLYMR =      LOFLWLIM = 1.300      HTDECONP =
      TOXINHAL = 25.00      INHALCNC = 75.00      INHALTME = 1800.      UPFLMLIM = 7.900      BURNRATE = 0.1000E-03
      LATETOX =      ABFLMTMP =      MOLRATIO =      UPTOXLIM = 0.5000E-04      FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BOC	CHEMNAME = BISMUTH OXYCHLORIDE	PATHCODE = II		
MOLEWT =	260.4	NBP =	CRITPRES=	
DENSITY =	7700.	DENSTEMP=	293.1	BRHO =
CRHO =		LDUPREND=		LQVISTMP=
AVIS =		BVIS =		LQTHRCND=
LTHCNTMP=		ACON =		LTCLOEND=
LQHTCPPT=		LQHTCPTM=		LHCUPEND=
LHCLOBND=		SURFTENS=		INTFTTMP=
SOLUBPNT=		SOLUBTMP=		AVP =
BVP =		VP =		AVCP =
BVCP =		CVCP =		VHCLOBND=
HTFUSION=		LHTVAPOR=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		BURNRATE=
TOXINHAL=		INHALCNC=		UPTOXLIM=
LAFETOX =		ABFLMTMP=		FLMETEMP=
MOLFRAC =				
				0.2150E-01(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BPA CHEMNAME = BISPHENOL A

PATHCODE = II

MOLECW = 228.3	NBP =	NFP = 430.0	CRITTEMP =	CRITPRES =
DENSITY = 1195.	DENSTEMP = 228.2	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LQVISPT =	LQVISIMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBN =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBN =	LHCLOBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTIMP =	INTFTIMP =
SOLUBPNT = 0.6000E-01	SOLUBTMP = 298.2	A =	B =	AVP =
BVP =	CVP =	VPUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LCTOXLIN =	UPTOXLIN = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BPC	CHEMNAME = BARIUM PERCHLORATE	PATHCODE = SS	
MOLECW =	390.3	NEP =	778.0
DENSITY =	3200.	DENSTMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	200.0	SOLUBTMP =	273.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.2900E-01	INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		CRITTEMP =	
		ARHC =	
		LQVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOBND =	
		HTSOLUTN =	0.2000E+05
		BURNRATE =	
		UPTOX LIM =	
		AIRFUEL =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BPD  CHEMNAME = BENZENE PHOSPHORUS DICHLORIDE      PATHCODE = A  Q
      MOLEWT = 179.0      NBP = 494.0      NFP = 222.0      CRITTEMP=
      DENSITY = 1320.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1613.      (E) BRHO = -1.000      (E
      CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLWRBND= 273.1      JVISPNT= 0.4400E-02      LQVISTMP= 298.1
      AVIS = -9.713      (E) BVIS = 1280.      (E) LVUPREND= 303.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      (E
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 273.1
      LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 656.7      (E) BHC = 4.187      (E) LHCUPEND= 298.1
      LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.04
      BVP = 2980.      CVP = -0.1500      VPUPREND= 498.1      VPLWRBND= 333.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCONSTN= -0.1900E+08(E) HTDECOMP=      HTSOLUTN= -0.1700E+06
      HTRACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
BPF  CHEMNAME = BROMINE PENTAFLUORIDE      PATHCODE = A  0  Z
MOLEWT = 174.9      NBP = 314.0      CRITTEMP = 473.0      CRITPRES =
DENSITY = 2480.      DENSTEMP = 293.1      SHPSTATE=L      BRHO = 3.460
CRHO = 0.0000E+00    LDUPREND = 343.1      LDWRBND = 278.1      LOVISPAI =
AVIS =              BVIS =              LVUPRND =          LOTHRCND =
LTHCNTMP =          ACON =              BCON =          LTCUPBND =
LOHTCPTM =          LOHTCPTM =          AHC =            EHC =
LHCLOBND =          SURFTENS =          SFTNTEMP =        INTFTENS =
SOLUBPNT =          SOLUBTMP =          A =              B =
BVP = 1628.          CVP = -0.1500      VPUPRND = 343.1      VPLWRBND = 278.1
BVCP =              CVCP =              DVCp =            VHCUPBND =
HTFUSION =          LHTVAPOR = 0.1790E+06      HTDECOMP =        HTSOLUTN =
HTRACTN =           HTPOLYMR =          LOFLMLIM =        UPFLMLIM =
TOXINHAL = 0.1000    INHALCNC =          INHALTWE =        LOTOXLIM =
LATETOX =           ABFLWTMP =          MOLRATIO =        AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BPM  CHEMNAME = BARIUM PERMANGANATE          PATHCODE = SS
      MOLEWT = 375.0      NBP =                NFP =                CRITTEMP=
      DENSITY = 3770.      DENSTEMP= 293.1      SHPSTATE=S          BRHO  =
      CRHO =              LDUPREND=              LDWRSND=          LOVISTMP=
      AVIS =              BVIS =                LVUPRSND=          LOTHRCND=
      LTHCNTMP=          ACON =                BCON =            LTCLOBND=
      LQHTCPPT=          LQHTCPTM=              AHC =            LHCUPBND=
      LHCLOBND=          SURFTENS=              SFTNTEMP=          INTFTTMP=
      SOLUBPNT= 62.50      SOLUBTMP= 284.1      A = -139.2          AVP   =
      BVP =              CVP =                VPUPRSND=          AVCP  =
      BVCP =              CVCP =                DVCP =            VHCLOBND=
      HTFUSION=          LHTVAPOR=              HTCO::STN=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=              LOFLWLM=            UPFLMLIM=
      TOXINHAL= 0.3000E-01      INHALCNC=          INHALTME=          LOTOXLIM=
      LATETOX =          ABFLMTMP=              MOLRATIO=          AIRFUEL =
      MOLFRAC =
*****

```

BPO	CHEMNAME = BARIUM PEROXIDE		PATHCODE = II	
MOLECWT =	169.4	NBP =	723.0	CRITPRES=
DENSITY =	4960.	DENSTEMP=	293.1	BRHO =
CRHO =		LDUPRBD=		LQVISTMP=
AVIS =		BVIS =		LQTHRCND=
LTHCNTMP=		ACON =		LTCLOBND=
LQHTCPPT=		LQHTCPT=		LHCUPBND=
LHCLOBND=		SURFTENS=		INTFTTMP=
SOLUBPNT=	1.500	SOLUSTMP=	273.1	AVP =
BVP =		CVP =		AVCP =
BYCP =		CVCP =		VHCLOBND=
HTFUSION=		LHTVAPOR=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		BURNRATE=
TOXINHAL=	0.6600E-01	INHALCNC=		UPTOXLIM=
LATETOX =		ABFLMTMP=		FLMETEMP=
MOLFRAC =				

M OF UNITS

C

1

MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BRA  CHEMNAME = N-BUTYRIC ACID          PATHCODE = A  P  Q
MOLEWT = 88.10      NBP      = 437.0      NFP      = 268.0      CRITTEMP= 628.0      CRITPRES= 0.5300E+07
DENSITY = 958.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1251      BRHO      = -1.000
CRHO      = 0.0000E+00      LDUPRND= 303.1      LDLRBND= 273.1      LQVISPNT= 0.1650E-02      LQVISTMP= 293.1
AVIS      = -11.46      BVIS      = 1480.      LVUPRND= 313.1      LVLWRBND= 283.1      LQTHRCND= 0.1628
LTHCNTMP= 285.1      ACON      = 0.1629      BCON      = 0.0000E+00      LTCUPBND= 298.1      LTCLOBND= 278.1
LQHTCPPT= 2093.      LQHTCPTM= 293.1      AHC      = 2093.      EHC      = 0.0000E+00      LHCUPBND= 313.1
LHCLOBND= 283.1      SURFTENS= 0.2674E-01      SFTNTMP= 293.1      INTFTENS=          INTFTTMP=
SOLUBTMP=          A      =          B      =          AVP      = 9.909
BVP      = 1794.      CVP      = -70.45      VPUPRND= 343.1      VPLWRBND= 273.1      AVCP      = 0.1174E+05
BVCP      = 413.7      CVCP      = -0.2430      DVCP      = 0.5531E-04      VHCUPBND= 550.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.3880E+06      HTCOMBNTN= -0.2470E+08      HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.190      UPFLMLIM= 13.40      BURNRATE= 0.4509E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PATHCODE = 11

BRC **CHEMNAME = BARIUM CARBONATE**

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BRT  CHEMNAME = BORON TRICHLORIDE      PATHCODE = A  C  O
MOLEWT = 117.2      NBP = 285.6      CRITPRES= 0.3900E+07
DENSITY = 1350.      DENSTEMP= 284.1      BRHO = -7.300
CRHO = 0.0000E+00    LDUPRND= 293.1      LQVISTMP= 285.6
AVIS = -10.37        BVIS = 990.0      LQTHRCND= 0.1082
LTHCNTMP= 273.1      ACON = 0.1780      LTCLOBND= 233.1
LQHTCPPT= 921.1      LQHTCPTM= 286.1      LHCUPBND= 298.1
LHCLOBND= 273.1      SURFTENS= 0.1670E-01      INTFTTMP=
SOLUBPNT=            SOLUBTMP=            AVP = 9.698
BVP = 1340.          CVP = -0.1500      AVCP = 0.5514E+05
BVCP = 33.29         CVCP = 0.0000E+00      VHCLOBND= 300.0
HTFUSION=            LHTVAPOR= 0.1600E+06      HTSOLUTN= -0.3000E+08
HTREACTN=            HTPOLYMR=            BURNRATE=
TOXINHAL=            INHALCNC=            UPTOXLIM= 0.5000E-02
LAFETOX =            ABFLMTMP=            FLMETEMP=
MOLFRAC =            MOLRATIO=            AIRFUEL =
*****

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BRX CHEMNAME = BROMINE

PATHCODE = A P X

MOLEWT = 159.8	NBP = 332.0	NFP = 266.0	CRITTEMP =	CRITPRES =	
DENSITY = 3120.	DENSTEMP = 293.2	SHPSSTATE=L	ARHO =	BRHO =	-3.400
CRHO = 0.0000E+00	LDUPREND = 308.2	LDLWRBND = 273.2	LQVISPNT =	LQVISTMP =	293.2
AVIS = -10.01	BVIS = 906.0	LVUPREND = 298.2	LVLWRBND =	LQTHRCND =	
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =	
LQHTCPPT = 420.0	(E) LQHTCPTM = 290.0	(E) AHC = 420.0	(E) BHC =	LHCUPEND =	300.0 (E)
LHCLOBND = 280.0	(E) SURFTENS = 0.4100E-01	SFTNTMP = 293.2	INTFTENS =	INTFTMP =	290.0 (E)
SOLUBPNT = 3.500	SOLUBTMP = 298.2	A =	B =	AVP =	10.05
BVP = 1670.	CVP = 0.4004E-01	VPUPREND = 313.2	VPLWRBND =	AVCP =	0.3561E+05
BVCP = 2.805	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND =	VHCLOBND =	300.0
HTFUSION =	LHTVAPOR = 0.1876E+06	HTCOMSTN =	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL = 0.1000	INHALCNC = 0.4000	INHALTME = 1800.	LOTOXLIM =	UPTOXLIM =	
LAFETOX =	ABFLNTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

BTB  CHEMNAME = BORON TRIBROMIDE          PATHCODE = A  0
      MOLEWT = 250.5      NBP = 364.0      NFP = 227.0
      DENSITY = 2700.      DENSTEMP = 293.1      SHPS:ATE=L
      CRHO = 0.0000E+00(E) LDUPRBND = 298.1      LDWRBND = 288.1
      AVIS =              BVIS =              LVUPRSND =
      LTHCNTMP =          ACON =              BCON =
      LQHTCPPT =          LQHTCPTM =          AHC =
      LHCLOBND =          SURFTENS =          SFTINTEMP =
      SOLUBPNT =          SOLUBTMP =          A =
      BVP = 1740.          CVP = -0.1500      VPUPRSND = 363.1
      BVCP = 0.0000E+00    CVCP = 0.0000E+00    DVCP = 0.0000E+00
      HTFUSION =          LHTVAPOR = 0.1200E+06    HTCOWSTN =
      HTREACTN =          HTPOLYMR =
      TOXINHAL = 1.000      INHALCNC =          INHALTME =
      LATETOX =          ABFLMTMP =          MOLRATIO =
      MOLFRAC =

```

CRITPRES=

(E) BRHO = 0.0000E+00(E

2700.

LQVISTMP=

LQTHRCND=

LTCLOBND=

LHCUPBND=

INTFTTMP=

AVP = 9.780

AVCP = 0.6783E+05

VHCLOBND= 300.0

HTSOLUTN=

BURNRATE=

UPTOXLIM=

FLMETEMP=

CRITTEMP=

ARHO =

LQVISPNT=

LVLWRSND=

LTCUPBND=

BHC =

INTFTENS=

E =

233.1

50.0

HTDECOMP=

LOFLMLIM=

LOTOXLIM=

AIRFUEL =

PATHCODE = A 0

NFP = 227.0

SHPS:ATE=L

LDWRBND = 288.1

LVUPRSND =

BCON =

AHC =

SFTINTEMP =

A =

363.1

0.0000E+00

HTCOWSTN =

LOFLMLIM =

INHALTME =

MOLRATIO =

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

PATHCODE = A T U Z

[illegible]

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTF  CHEMNAME = BROMINE TRIFLUORIDE          PATHCODE = A  0
MOLEWT = 136.9      NBP      = 399.0      NFP      = 282.0      CRITTEMP= 600.0      (E) CRITPRES=
DENSITY = 2810.      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 3543.      BRHO      = -2.500
CRHO      = 0.0000E+00      LDUPREND= 343.1      (E) LDWRBND= 283.1      LQVISPNT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS      = -12.91      (E) BVIS      = 2100.      (E) LVUPREND= 298.1      LVLWRBND= 283.1      LQTHRCND= 0.2326      (E)
LTHCNTMP= 293.1      ACON      = 0.2326      (E) BCON      = 0.0000E+00(E) LTCLOBND= 283.1      LHCUPBND= 303.1
LQHTCPPT= 921.1      LQHTCPTM= 293.1      AHC      = 921.1      INTFTENS=
LHCLOBND= 283.1      SURFTENS= 0.1000E-01(E) SFTNTEMP= 293.1      INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A      =          B      =          AVP      = 9.873
BVP      = 1686.      CVP      = -52.15      VPUPREND= 373.1      VPLWRBND= 293.1      AVCP      = 0.6657E+05
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPBND= 350.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.3100E+06      HTCONSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL= 0.1000      INHALCNC= 50.00      INHALTME= 1800.      LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BTL CHEMNAME = SEC-BUTYLAMINE

PATHCODE = A P Q R S

MOLEWT = 73.10	NBP = 336.0	NFP = 169.0	CRITTEMP =	CRITPRES =	
DENSITY = 720.0	DENSTEMP = 293.1	SHPSATE=L	ARHO =	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPRND = 303.1	LDLWRBND = 273.1	LOVISPNT =	LQVISTMP =	
AVIS =	BVIS =	LVUPRND =	LVLWRBND =	LQTHRCND =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512 (E)	BCON = 0.0000E+00(E)	LTCUPBND =	LTCLOBND =	288.1
LQHTCPPT = 2010.	(E) LQHTCPTM = 293.1	AHC = 2010.	(E) BHC =	LHCUPBND =	298.1
LHCLOBND = 288.1	SURFTENS = 0.2242E-01	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	11.67
BVP = 2163.	CVP = -0.1500	VPUPRND = 313.1	VPLWRBND =	AVCP =	9491. (E)
BVCP = 442.8 (E)	CVCP = -0.2109 (E)	DVCP = 0.2332E-04(E)	VHCUPBND =	VHCLOBND =	250.0
HTFUSION =	LHTVAPOR = 0.4160E+06	HTCONSTN = -0.4090E+08	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLWLM =	UPFLMLIN =	BURNRATE =	0.1032E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTM  CHEMNAME = N-BUTYL MERCAPTAN      PATHCODE = A  T  U  V  W
MOLECWT = 90.20      NBP      = 371.7      NFP      = 157.5      CRITTEMP= 563.0      CRITPRES= 0.3940E+07
DENSITY = 841.0      DENSTEMP= 293.1      SHPSTATE=L      BRHO      = 1135.      BRHO      = -1.000
CRHO      = 0.0000E+00      LDUPREND= 303.1      LDLWRBND= 273.1      LQVISPNT= 0.4960E-03      LQVISTMP= 293.1
AVIS      = -10.81      BVIS      = 938.0      LVUPREND= 303.1      LVLWRBND= 283.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON      = 0.1512 (E)      BCON      = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1926.      LQHTCPTM= 298.1      AHC      = 698.6 (E)      BHC      = 4.187 (E)      LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2610E-01      SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 10.06
BVP      = 1877.      CVP      = -0.1500      VPUPREND= 373.1      VPLWRBND= 283.1      AVCP      = -0.8081E+05
BVCP      = 669.9      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPEND= 350.0      VHCLOBND= 270.0
HTFUSION=      LHTVAPOR= 0.3710E+06(E)      HTCOMSTN= -0.3860E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE= 0.1236E-03
TOXINHAL= 0.5000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BTN	CHEMNAME = BUTYLENE	PATHCODE = A B C D E F G					
	MOLEWT = 56.10	NBP = 266.9	NFP = 90.00	CRITTEMP=	419.6	CRITPRES=	0.402CE+07
	DENSITY = 595.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO =	919.5	BRHO =	-1.100
	CRHO = 0.0000E+00	LDUPRBD= 293.2	LDLWRBD= 193.2	LQVISPT=	0.1500E-03	LQVISTMP=	293.2
	AVIS = -10.97	BVIS = 634.0	LVUPRBD= 298.2	LVLWRBD=	183.2	LQTHRCND=	
	LTHCNTMP=	ACON =	BCON =	LTCUPBD=		LTCLOBND=	
	LQHTCPT= 2345.	LQHTCPTM= 267.2	AHC = 1108.	BHC =	4.605	LHCUPEND=	333.2
	LHCLOBND= 233.2	SURFTENS= 0.1250E-01	SFTNTMP= 293.2	INTFTENS=	0.6800E-01(E)	INTFTMP=	273.0 (E)
	SOLUBPNT=	SOLUBTMP=	A =	B =		AVP =	9.503
	BVP = 1200.	CVP = 0.4004E-01	VPUPRBD= 293.2	VPLWRBD=	253.2	AVCP =	-1005.
	BVCP = 362.2	CVCP = -0.2135	DVCP = 0.5024E-04	VHCUPBD=	200.0	VHCLOBND=	250.0
	HTFUSION=	LHTVAPOR= 0.3910E+06	HTCOMSTN= -0.4533E+08	HTDECOMP=		HTSOLUTN=	
	HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.600	UPFLMLIM=	10.00	BURNRATE=	0.1467E-03
	TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=		UPTOXLIM=	
	LATETOX =	ABFLMTMP= 2493.	(E) MOLRATIO= 0.8750	(E) AIRFUEL =	14.68	(E) FLMETEMP=	
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTO  CHEMNAME = BUTYLENE OXIDE          PATHCODE = A  P  Q  R  S
MOLECWT = 72.00      NBP = 336.0      NFP = 223.0      (E) CRITTEMP=
DENSITY = 826.0      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 1119.      (E) BRHO = -1.000      (E
CRHO = 0.0000E+00(E) LDUPRBND= 303.1      LDLWRBND= 283.1      LQVISBND= 0.4000E-03      LQVISTMP= 298.1
AVIS = -10.68      (E) BVIS = 850.0      (E) LVUPRSD= 303.1      LVLWRBND= 283.1      LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=
LOHTCPPT=          LOHTCPTM=          AHC =          BHC =          LTCLOBND=
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          LHCUPBND=
          INTFTTMP=
SOLUBPNT= 7.000      SOLUBTMP= 293.1      A =          B =          AVP = 8.844
BVP = 1290.      CVP = -0.1500      VPUPRSD= 343.1      VPLWRBND= 283.1      AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTVFUSION=          LHTVAPOR= 0.4200E+06(E) HTCOWSTN= -0.3540E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.500      UPFLMLIM= 18.30      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTP  CHEMNAME = P-TERT-BUTYLPHENOL          PATHCODE = II
MOLEWT = 150.0      NBP = 512.7      NFP = 372.0      CRITTEMP=
DENSITY = 1037.     DENSTEMP= 298.1    SHPSTATE=S      ARHO =
CRHO =             LDUPRBND=           LDLWRBND=      LQVISPT=
AVIS =             BVIS =             LVUPRBND=      LVLWRBND=
LTHCNTMP=          ACON =             BCON =          LTCUPBND=
LQHTCPPT=          LQHTCPTM=          AHC =          BHC =
LHCLOBND=          SURFTENS=          SFTNTENS=      INTFTENS=
SOLUBPNT= 0.1000E-02 SOLUBTMP= 293.1    A =          B =
BVP =             CVP =             VPUPRBND=      VPLWRBND=
BVCP =            CVCP =             DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.3940E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=      LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.2000E-02
FLMETEMP=
0.4000E-03

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/46/56 PAGE152

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BTR  CHEMNAME = N-BUTYRALDEHYDE          PATHCODE = A  P  Q
MOLECW = 72.11      NBP      = 348.0      CRITTEMP= 524.0      CRITPRES= 0.4100E+07
DENSITY = 803.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1124.      BRHO      = -1.100
CRHO      = 0.0000E+00      LDUPREND= 333.2      LDWRBND= 273.2      LQVISPNT= 0.4200E-03      LQVISTMP= 293.2
AVIS      = -10.64      BVIS      = 838.0      LVUPRND= 313.2      LVLWRBND= 233.2      LQTHRCND= 0.1454
LTHCNTMP= 293.2      ACON      = 0.2136      BCON      = -0.2326E-03      LTCUPBND= 333.2      LTCLOBND= 223.2
LQHTCPPT= 2177.      LOHTCPTM= 293.2      AHC      = 1563.      BHC      = 2.093      LHCUPBND= 303.2
LHCLOBND= 223.2      SURFTENS= 0.2460E-01      SFTNTMP= 293.2      INTFTENS= 0.5500E-01(E)      INTFTTMP= 293.0 (E)
SOLUBPNT= 7.100      SOLUBTMP= 298.2      A      =      B      = 9.146
BVP      = 1233.      CVP      = -40.16      VPUPRND= 373.2      VPLWRBND= 253.2      AVCP      = 0.1424E+05
BVCP      = 345.8      CVCP      = -0.1717      DVCP      = 0.2889E-04      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4271E+06      HTCONSTN= -0.3538E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.500      UPFLMLIM= 10.60      BURNRATE= 0.7333E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BUA  CHEMNAME = TERT-BUTYLAMINE      PATHCODE = A  P  Q  R  S
MOLEWT = 73.14      NBP = 318.0      NFP =      CRITTEMP=
DENSITY = 696.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 989.2      CRITPRES=
CRHO = 0.0000E+00      LDUPRBN= 303.1      LDWRBND= 283.1      LQVISPT=      LQVISTMP=      BRHO = -1.000
AVIS =      BVIS =      LVUPRBN=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      EHC =      LHCUPBND=
LHCLOBND=      SURFTENS= 0.1900E-01      SFTNTEMP= 293.1      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.03
BVP = 1596.      CVP = 0.5000E-01      VPUPRBN= 323.1      VPLWRBND= 268.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3880E+06      HTCOMSTN= -0.4100E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.700      UPFLMLIM= 8.900      BURNRATE= 0.1169E-03(E
TOXINITIAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BUD CHEMNAME = 1,4-BUTENEDIOL PATHCODE = A P Q

MOLEWT = 88.11	NBP =	507.0	NFP =	280.0	CRITTEMP =	CRITPRES =
DENSITY = 1070.	DENSTEMP =	298.2	SHSTATE = L		ARHO =	BRHO = -1.000
CRHO = 0.0000E+00	LDUPREND =	303.2	LDLWREND =	288.2	LQVISPT =	LQVISTMP =
AVIS =	BVIS =		LVUPREND =		LVLWREND =	LQTHRCND =
LTHCNTMP =	ACON =		BCON =		LTCUPEND =	LTCLOBND =
LQHTCPPT = 2190.	(E) LQHTCPTM =	300.0	(E) AHC =	2190.	(E) BHC =	LHCUPEND = 310.0 (E)
LHCLOBND = 295.0	(E) SURFTENS =		SFTNTMP =		INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =		A =		B =	AVP = 12.27 (E)
BVP = 3637.	(E) CVP =	0.0000E+00(E)	VPUPREND =	340.0	(E) VPLWREND =	295.0 (E) AVCP =
BVCP =	CVCP =		DVCP =		VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =		HTCOMSTN =	-0.2500E+08(E)	HTDECOMP =	HTSOLUTN = -0.2000E+05(E)
HTREACTN =	HTPOLYMR =		LOFLMLIM =		UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =		INHALTIME =		LOTOXLIN =	UPTOXLIM = 0.5000E-03
LARETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PATHCODE = II

[illegible]

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BZD  CHEMNAME = BENZALDEHYDE
      MOLEWT = 106.1      NBP = 452.0      PATHCODE = A      T      U      X      Y
      DENSITY = 1046.      DENSTEMP= 293.2      SHPSTATE=L      NFP =      CRITTEMP= 625.0      CRITPRES= 0.2180E+07
      CRHO = -0.1200E-03      LDUPREND= 373.2      LDWRBND= 273.2      LDWRBND= 273.2      LOVISPNT= 0.1370E-02      LOVISTMP= 298.2
      AVIS = -20.01      BVIS = 4000.      LVUPRND= 308.2      LVUPRND= 308.2      LOTHRCND= 0.1628
      LTHCNTMP= 293.2      ACON = 0.5038      BCON = -0.1163E-02      LTCUPBND= 313.2      LTCLOBND= 283.2
      LQHTCPPT= 1792.      LQHTCPTM= 293.2      AHC = 1792.      BHC =      LHCUPBND= 313.2
      LHCLOBND= 283.2      SURFTENS= 0.4000E-01      SFTNTEMP= 293.2      INTFTENS= 0.1550E-01      INTFTTMP= 293.2
      SOLUBPNT= 0.3000      SOLUBTMP= 298.2      A =      B =      AVP = 12.06
      BVP = 3000.      CVP = 0.4004E-01      VPUPRND= 353.2      VPLWRBND= 283.2      AVCP = -0.2160E+05
      BVCP = 502.4      CVCP = -0.2763      DVCP = 0.4605E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3622E+06      HTCOMSTN= -0.3195E+08      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      BURNRATE= 0.6333E-04
      TOXINHAL=      INHALCNC=      INHALTIME=      UPTOXLIM= 0.5000E-03
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BZM CHEMNAME = BENZYLAMINE

PATHCODE = A P Q

MOLECW = 107.2	NBP = 457.7	NFP = 227.0	(E) CRITEMP =	CRITPRES =	
DENSITY = 980.0	DENSTEMP = 293.1	SHSTATE=L	ARHO =	BRHO =	-0.8200
CRHO = 0.0000E+00	LDUPRND = 313.1	LDLWRND = 273.1	LOVISPNT =	LOVISTMP =	293.1
AVIS = -8.868	(E) BVIS = 600.0	(E) LVUPRND = 303.1	LVLRBND =	LQTHRCND =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LTCUPBND =	LTCLOBND =	283.1
LQHTCPPT = 1884.	(E) LQHTCPTM = 293.1	AHC = 1884.	(E) BHC =	LHCUPBND =	293.1
LHCLOBND = 283.1	SURFTENS = 0.3950E-01	SFTNTEMP = 293.1	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =	-0.1717E+05(E)
BVCP = 584.6	(E) CVCP = -0.3246	(E) DVCP = 0.5388E-04(E)	VHCUPBND =	VHCLOBND =	250.0
HTFUSION =	LHTVAPOR = 0.3600E+06(E)	HTCOMBNTN = -0.3780E+08	HTDECOMP =	HTSOLUTN =	-0.1000E+06
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	0.6897E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
BZN  CHEMNAME = BENZONITRILE  PATHCODE = A  T  X
MOLEWT = 103.1  NBP = 464.0  NFP = 260.4  CRITTEMP= 699.4  CRITPRES= 0.4150E+08
DENSITY = 1010.  DENSTEMP= 298.1  SHPSTATE=L  ARHC = 1270.  BRHO = -0.8800
CRHO = 0.0000E+00  LDUPREND= 313.1  LDLWRBND= 273.1  LOVISPLT= 0.1250E-02  LOVISTMP= 298.1
AVIS =  LTHCNTMP=  LTHCPTM= 1842.  LOHTCPTM= 293.1  AHC = 1842.  LHCUPBND= 333.1
LHCLOBND= 283.1  SURFTENS= 0.3470E-01  SFTNTEMP= 298.1  INTFTENS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  CVP = -0.1500  VPUPRBND= 473.1  VPLWRBND= 313.1  AVCP = -0.1743E+05(E)
BVP = 2450.  (E) CVCP = -0.3141  (E) DVCP = 0.5774E-04(E)  VHCUPBND= 500.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3670E+06  HTCOMSTN= -0.3510E+08  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BZO CHEMNAME = BENZYL-DIMETHYLOCTADECYLAMMONIUM CHLORIDE PATHCODE = SS

MOLEWT = 411.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1100. (E)	DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTIME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/47/14 PAGE162
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

BZP		CHEMNAME = BENZOPHENONE		PATHCODE = A T X	
MOLECWT =	182.0	NBP =	578.7	NFP =	321.1
DENSITY =	1085.	DENSTEMP =	323.1	SHSTATE=L	
CRHO =	0.0000E+00	LDUPRBND =	333.1	LDLWRBND =	323.1
AVIS =	-7.094	BVIS =	197.0	LVUPRBND =	393.1
LTHCNTMP =		ACON =		BCON =	
LQHTCPPT =		LQHTCPTM =		AHC =	
LHCLOBND =		SURFTENS =	0.4200E-01	SFTNTMP =	323.1
SOLUBPNT =		SOLUBTMP =		A =	
BVP =		CVP =		VPUPRBND =	
BVCP =		CVCP =		DVCP =	
HTFUSIGN =		LHTVAPOR =	0.2930E+06	HTCOVSTN =	-0.3580E+08
HTREACTN =		HTPOLYMR =		LOFLWLIM =	
TOXINHAL =		INHALCNC =		INHALTME =	
LATETOX =		ABFLMTMP =		MOLRATIO =	
MOLFRAC =					
				CRITTEMP =	
				ARHO =	3867.
				LQVISPNT =	0.1530E-02
				LVLWRBND =	323.1
				LTCUPBND =	
				BHC =	
				INTFTENS =	
				INTFTTMP =	
				AVP =	
				AVCP =	
				VHCLOBND =	
				HTSOLUTN =	
				BURNRATE =	
				UPTOXLIM =	
				FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CAA  CHEMNAME = COPPER ACETOARSENITE          PATHCODE = II  SS
MOLEWT = 1014.      NBP =                      CRITTEMP=
DENSITY = 1100.      (E) DENSITY = 293.1      ARHO =
CRHO =              LDUPREND=                  LOVISPT=
AVIS =              BVIS =                      LVLWRBND=
LTHCNTMP=          ACON =                      LTCLOBND=
LQHTCPPT=          LOHTCPTM=                   LHCUPBND=
LHCLOBND=          SURFTENS=                   INTFTTMP=
SOLUBPNT= 3.000    SOLUBTMP= 293.1            AVP =
BVP =              CVP =                      VPLWRBND=
BVCP =             CVCP =                     VHCLOBND=
HTFUSION=          LHTVAPOR=                   HTSOLUTN=
HTREACTN=          HTPOLYMR=                   BURNRATE=
TOXINHAL= 0.1100E-01 INHALCNC=                 UPTOXLIM= 0.5000E-04(E)
LATETOX =          ABFLMTMP=                   FLMETEMP=
MOLFRAC =          MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CAC  CHEMNAME = CHLOROACETYL CHLORIDE          PATHCODE = A  0
MOLECWT = 112.9      NBP      = 378.0      NFP      = 250.7      CRITTEMP=
DENSITY = 1420.      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1713.      (E) BRHO      = -1.000      (E)
CRHO      = 0.0000E+00(E) LDUPREND= 303.1      LDLWRBND= 273.1      LQVISPNT= 0.2100E-03(E) LQVISTMP= 293.1
AVIS      = -11.21      (E) BVIS      = 800.0      (E) LVUPREND= 303.1      LVLWRBND= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON      = 0.1628      (E) BCON      = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 273.1
LQHTCPPT= 1465.      (E) LQHTCPTM= 293.1      AHC      = 238.0      (E) BHC      = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.707      (E)
BVP      = 1777.      (E) CVP      = -0.1500      (E) VPUPREND= 378.1      VPLWRBND= 333.1      AVCP      = 0.3152E+05(E)
BVCP      = 194.1      (E) CVCP      = -0.1293      (E) DVCP      = 0.3199E-04(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3000E+06(E) HTCOMSTN= -0.9000E+07(E) HTDECOMP=      HTSOLUTN= -0.1300E+06(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAF		CHEMNAME = CALCIUM FLUORIDE		PATHCODE = II	
MOLEWT =	78.08	NBP =		NFP =	
DENSITY =	3180.	DENSTEMP=	293.2	SHPSTATE=S	
CRHO =		LDUPRBND=		LDLWRBND=	
AVIS =		BVIS =		LVUPRBND=	
LTHCNTMP=		ACON =		BCON =	
LOHTCPPT=		LOHTCPTM=		AHC =	
LHCLOBND=		SURFTENS=		SFTNTMP=	
SOLUBPNT=	0.1800E-01	SOLUBTMP=	298.2	A =	
BVP =		CVP =		VPUPRBND=	
BVCP =		CVCP =		DVCP =	
HTFUSION=		LHTVAPOR=		HTCOM3TN=	
HTREACTN=		HTPOLYMR=		LOFLW/LIM=	
TOXINHAL=		INHALCNC=		INHALTME=	
LAFETOX =		ABFLMTMP=		MOLRATIO=	
MOLFRAC =					
				CRITTEMP=	
				BRHO =	
				LOVISTMP=	
				LOTHRCND=	
				LTCLOBND=	
				LHCUPBND=	
				INTFTTMP=	
				AVP =	
				AVCP =	
				VHCLOBND=	
				HTSOLUTN=	
				BURNRATE=	
				UPTOXLIM=	0.5000E-02
				FLMETEMP=	
				LOTOXLIM=	0.5000E-03
				AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAH CHEMNAME = CALCIUM HYDROXIDE PATHCODE = II

MOLECW = 74.09	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2240.	DENSTEMP = 293.2	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LOVISNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	EHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1300	SOLUBTMP = 290.9	A =	B =	AVP =
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	CVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HYCOMBTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAL CHEMNAME = CALCIUM PHOSPHATE PATHCODE = SS

MOLEWT =	2500.	293.1	NFP =	CRITTEMP=	CRITPRES=
DENSITY =			SHPSATE=S	ASHO =	BRHO =
CRHO =			LDLWRBND=	LQVISPAT=	LQVISIMP=
AVIS =			LVUPRSND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=			BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=			AHC =	BHC =	LHCUPBND=
LHCLOBND=			SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	1.800	303.1	A =	B =	AVP =
BVP =			VPUPREND=	VPLWRBND=	AVCP =
BVCP =			DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=			HTCOWSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=			LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=			INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =			MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					

0.1500E-01(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CAM	CHEMNAME = CALCIUM, METALLIC	PATHCODE = II	RR
MOLECW	= 40.10	NBP	= 1763.
DENSITY	= 1550.	DENSTEMP	= 293.1
CRHO	=	LDUPREND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	=	SOLUBTMP	=
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	=	INHALCNC	=
LAETOX	=	ABFLWTMP	=
MOLFRAC	=		
		HTCOMSTN	= -0.1580E+08(E)
		LOFLMLIM	=
		INHALTME	=
		MOLRATIO	=
		UPFLMLIM	=
		LOTOXLIM	=
		AIRFUEL	=
		FLMETEMP	=
		BURNRATE	=
		HTSOLUTN	=
		VHCLOBND	=
		AVCP	=
		AVP	=
		INTFTTMP	=
		LHCUPBND	=
		LTCLOBND	=
		LQTHRCND	=
		LQVISTMP	=
		BRHO	=
		CRITPRES	=
		CRITTEMP	=
		ARHO	=
		LOVISPNT	=
		LVLWRBND	=
		LTCUPBND	=
		BHC	=
		INTFTENS	=
		B	=
		VPLWRBND	=
		VHCUPBND	=
		VUPRBNND	=
		DVCP	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CAO  CHEMNAME = CALCIUM OXIDE          PATHCODE = RR
MOLEWT = 56.08      NBP =              NFP =              CRITTEMP=
DENSITY = 3300.     DENSTEMP= 293.2    SHPSTATE=S        ARHO =
CRHO =             LDUPREND=           LDWRSDND=         LQVISPT=
AVIS =             BVIS =              LVUPRSND=         LQTHRCND=
LTHCNTMP=          ACON =              BCON =           LTCLOBND=
LQHTCPPT=          LQHTCPTM=           AHC =            LHCUPBND=
LHCLOBND=          SURFTENS=           SFTNTMP=         INTFTTMP=
SOLUBNT=           SOLUBTMP=          A =              B =
BVP =              CVP =              VPUPRSND=        VPLWRSD=
BVCP =             CVCP =             DVCP =          VHCLOBND=
HTFUSIGN=          LHTVAPOR=          HTCOMSTN=        HTSOLUTN=
HTREACTN= -0.1135E+07  HTPOLYMR=          LOFLMLIM=        UPFLMLIM=
TOXINHAL= 2.000      INHALCNC= 4.000  INHALTME= 1800.  LOTOXLIN=
LATETOX =           ABFLMTMP=          MOLRATIO=        AIRFUEL =
MOLFRAC =
*****
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIN=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CAP    CHEMNAME = P-CHLOROANILINE                                PATHCODE = II
MOLECW = 127.6      NBP = 503.0      NFP = 343.0      CRITTEMP=
DENSITY = 1430.     DENSTEMP= 292.1  SHPSTATE=S      ARHO =
CRHO =              LDUPREND=        LVLWRBND=        LQVISTMP=
AVIS =              BVIS =          LVUPRSD=          LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCLOBND=
LQHTCPPT=          LQHTCPTM=        AHC =          LHCUPBND=
LHCLOBND=          SURFTENS=        SFTINTEMP=      INTFTTMP=
SOLUBPNT= 0.4000   SOLUBTMP= 303.1  A =             AVP = 10.60
BVP = 2813.        CVP = -0.1500   VPUPRSD= 503.1  VPLWRBND=
BVCP =            CVCP =          DVCP =          VHCLOBND=
HTFUSION=          LHTVAPOR=        HTCOMBNTN= -0.2500E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=        LOFLMLIM=      UPFLMLIM=
TOXINHAL=          INHALCNC=        INHALTME=      LOTOXLIM= 0.5000E-04
LATETOX =          ABFLMTMP=        MOLRATIO=      AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 10.60
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CAR      CHEMNAME = CARENE
MOLECWT = 136.0      NBP      = 443.0      CRITPRES=
DENSITY = 860.0      DENSTEMP= 293.1      ARHO      = 1212.      BRHO      = -1.200
CRHO     = 0.0000E+00  LDUPREND= 298.1      LQVISPNT= 0.1200E-02  LQVISTMP= 293.1
AVIS     =              BVIS     =              LVLWRBND=          LQTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT=          LQHTCPTM=          AHC      =          BHC      =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A      =          B      =          AVP      = 10.10
BVP      = 2258.      CVP      = -0.1500      VPUPREND= 443.1      VPLWRBND= 343.1      AVCP      =
BVCP     =          CVCP     =          DVCP     =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONSTN= -0.4500E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =          FLMETEMP=
MOLFRAC  =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S4 SYSTEM OF UNITS

CAT	CHEMNAME = CADMIUM ACETATE	PATHCODE = SS
MOLEWT =	266.5	NFP =
DENSITY =	2340.	SHSTATE=S
CRHO =		LDLWRBND=
AVIS =		LVUPRBND=
LTHCNTMP=		BCON =
LQHTCPPT=		AHC =
LHCLOBND=		SFTNTMP=
SOLUBPNT=		A =
BVP =		VPUPRBND=
BVCP =		DVCP =
HTFUSION=		HTCONBTN=
HTREACTN=		LOFLMLIM=
TOXINHAL=	0.1680E-01	INHALCNC=
LAETOX =		ABFLWTMP=
MOLFRAC =		MOLRATIO=
		CRITTEMP=
		BRHO =
		LQVISTMP=
		LQTHRCND=
		LTCLOBND=
		LHCUPBND=
		INTFTTMP=
		AVP =
		AVCP =
		VHCLOBND=
		HTSOLUTN=
		BURNRATE=
		UPTOXLIM=
		FLMETEMP=
		0.5000E-04(E

PATHCODE = SS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CBB  CHEMNAME = CARBON BISULFIDE      PATHCODE = A  X  Y
MOLEWT = 76.14  NBP = 319.5          NFP = 161.6      CRITTEMP= 546.0      CRITPRES= 0.7700E+07
DENSITY = 1260.  DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1675.      BRHO = -1.400
CRHO = 0.0000E+00  LDUPRBND= 333.2      LDLWRBND= 238.2      LQVISPNT= 0.3670E-03  LOVISTMP= 293.2
AVIS = -9.974      BVIS = 605.0      LVUPRBND= 318.2      LVLWRBND= 273.2      LQTHRCND= 0.1256
LTHCNTMP= 293.2      ACON = 0.1938      BCON = -0.2326E-03  LTCUPBND= 293.2      LTCLOBND= 193.2
LQHTCPPT= 1001.      LOHTCPTM= 293.2      AHC = 755.2      BHC = 0.8374      LHCUPBND= 353.2
LHCLOBND= 193.2      SURFTENS= 0.3200E-01  SFTNTEMP= 293.2      INTFTENS= 0.4840E-01  INTFTTMP= 293.1
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.577
BVP = 1460.      CVP = 0.4004E-01  VPUPRBND= 333.2      VPLWRBND= 263.2      AVCP = 0.1926E+05
BVCP = 79.55      CVCP = -0.7536E-01  DVCP = 0.2638E-04  VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.3559E+06  HTCOMBTN= -0.1352E+08  HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 300      UPFLMLIM=          BURNRATE= 0.4500E-04
TOXINHAL= 20.00      INHALCNC= 100.0      INHALTME= 1800.      LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
CBC      CHEMNAME = COBALT CHLORIDE      PATHCODE = SS
MOLEWT = 237.9      NBP =      NFP = 359.0      CRITPRES=
DENSITY = 1924.      DENSTEMP= 293.1      SHPSTATE=S      CRITTEMP=
CRHO =      LDUPREND=      LDLRBND=      ARHO =      LOVISSTP=
AVIS =      BVIS =      LVUPREND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT= 52.90      SOLUBTMP= 293.1      A = -84.88      B = 0.4700      AVP =
BVP =      CVP =      VPUPREND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN=      HTDECO: P=      HTSOLUTN= 0.5000E+05
HTREACTN=      HTPOLYMR=      LOFLVLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.9400E-02      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CEN      CHEMNAME = 4-CHLOROBUTYRONITRILE      PATHCODE = A   X   Y
MOLECWt = 103.5      NBP = 463.0      CRITTEMP=
DENSITY = 1220.      DENSTEMP= 293.1      SHPSRATE=L      CRITPRES=
CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLW3BND= 278.1      LOVISPNT=      (E) BRHO = -1.000 (E)
AVIS =      BVIS =      LVUPREND=      LVLWRBND=      LQTHRCND=      LQVISTMP=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=      LQTHRCND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=      LQTHRCND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.39
BVP = 2495.      CVP = -0.1500      VPUPREND= 463.1      VPLWRBND= 343.1      AVCP = 0.3668E+05(E)
BVCP = 300.1 (E) CVCP = -0.1444 (E) DVCP = 0.1789E-04(E) VHCUPBND= 550.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4310E+06(E) HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLYLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.4000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CBO  CHEMNAME = CARBOLIC OIL  PATHCODE = A  P  Q

MOLECWT = 94.11  NBP = 455.0  (E) CRITTENP = 694.3  CRITPRES = 0.6130E+07
DENSITY = 1060.  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1366.  BRHO = -1.186
CRHO = 0.6700E-03  LDUPRND = 373.2  LDWRBND = 314.2  LOVISPT = 0.4640E-02  LQVISTMP = 314.2
AVIS = -15.88  BVIS = 3300.  LVUPRND = 353.2  LVLWRBND = 314.2  LOTHRCND = 0.1605
LTHCNTMP = 323.2  ACON =  (E) LQHTCPTM = 300.0  (E) AHC = 2500.  (E) BHC =  (E) LHCUPBND = 300.0  (E)
LQHTCPPT = 2500.  (E) SURFTENS = 0.3000E-01(E) SFTNTMP = 300.0  (E) INTFTENS =  (E) INTFTTMP =  (E)
LHCLOBND = 273.0  (E) SOLUBTMP = 293.2  A =  (E) B =  (E) AVP = 10.71
BVP = 2593.  CVP = 0.4004E-01  VPUPRND = 453.2  VPLWRND = 293.2  AVCP = -0.2474E+05
BVCP = 515.4  CVCP = -0.2847  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
HTFUSION =  (E) LHTVAPOR = 0.3014E+06  HTCOMSTN = -0.3117E+08  HTDECOMP =  (E) HTSOLUTN =  (E)
HTREACTN =  (E) HTPOLYMR =  (E) LOFLMLIM = 1.700  UPFLMLIM = 8.600  BURNRATE = 0.5833E-04(E)
TOXINHAL = 5.000  INHALCNC =  (E) INHALTME =  (E) LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
LATETOX =  (E) ABFLTMP =  (E) MOLRATIO =  (E) AIRFUEL =  (E) FLMETEMP =  (E)
MOLFRAC =  (E)

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

CBR CHEMNAME = CYANOGEN BROMIDE

PATHCODE = II

MOLEWT = 105.9	NBP =	NFP = 324.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 2015.	DENSTEMP = 293.2	SHPSATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOEND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTERS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPEBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOUSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.5000	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIN =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CBS CHEMNAME = COBALT SULFATE

PATHCODE = SS

MOLECW = 281.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1948.	DENSTEMP = 293.1	SHPSATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 34.50	SOLUBTMP = 293.1	A = -109.1	B = 0.4900	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOYSTN =	HTDECCIP =	HTSOLUTN = 0.5400E+05
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.8000E-02	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CBT	CHEMNAME = CARBON TETRACHLORIDE	PATHCODE = A	X
MOLEWT =	153.8	NBP =	349.7
DENSITY =	1590.	DENSTEMP =	293.2
CRHO =	-0.6900E-03	LDUPRND =	323.2
AVIS =	-11.30	BVIS =	1280.
LTHCNTMP =	293.2	ACON =	0.1729
LQHTCPPT =	904.3	LQHTCPTM =	293.2
LHCLOBND =	273.2	SURFTENS =	0.2700E-01
SOLUBPNT =	0.8000E-01	SOLUBTMP =	298.2
BVP =	1771.	CVP =	0.4004E-01
BVCP =	187.6	CVCP =	-0.1507
HTFUSION =		LHTVAPOR =	0.1959E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =	10.00	INHALCNC =	25.00
LAFETOX =		ABFLNTMP =	
MOLFRAC =			
		NFP =	250.2
		SHPSTATE=L	
		LDLWRBND =	273.2
		LVUPRND =	333.2
		BCON =	-0.2326E-03
		AHC =	-77.57
		SFTNTMP =	293.2
		A =	
		VPUPRND =	373.2
		DVCP =	0.0000E+00
		HTCOMSTN =	
		LOFLMLIM =	
		INHALTME =	1800.
		MOLRATIO =	
		CRITTEMP =	556.0
		ARHO =	2101.
		LQVISPT =	0.9520E-03
		LVLWRBND =	273.2
		LTCUPBND =	303.2
		BHC =	3.349
		INTFTENS =	0.4500E-01
		B =	
		AVP =	10.13
		AVCP =	0.4137E+05
		VHCLOBND =	250.0
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	
		CRITPRES =	0.4600E+07
		BRHO =	-1.523
		LQVISTMP =	294.2
		LQTHRCND =	0.1047
		LTCLOBND =	193.2
		LHCUPBND =	333.2
		INTFTTMP =	293.1

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CBY CHEMNAME = CARBARYL

PATHCODE = II

MOLEWT =	NBP =	NFP =	415.0	CRITTEMP=	CRITPRES=
DENSITY =	1230.	DENSTEMP=	293.2	SHPSSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRBND=		LOVISPN.T=	LOVISIMP=
AVIS =	BVIS =	LVUPRBND=		LVLWRB.D=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =		LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =		BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =		B =	AVP =
BVP =	CVP =	VPUPRBND=		VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =		VHCUPB.D=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=		LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=			FLMETEMP=
MOLFRAC =				0.5000E-03	0.5000E-02

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CCA CHEMNAME = CALCIUM ARSENATE PATHCODE = II

MOLECW = 398.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 3620.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPRSND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1300E-01	SOLUBTMP = 293.1	A =	B =	AVP =
BVP =	CVP =	VPUPRSND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL = 0.5630E-01	INHALCNC =	INHALTWE =	LOTOXLIN =	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CCB  CHEMNAME = CALCIUM CARBIDE          PATHCODE = RR  C
MOLEWT = 64.10      NBP =                NFP =
DENSITY = 2220.      DENSTEMP= 291.2      SHPSTATE=S
CRHO =              LDUPRND=              LDWRSD=
AVIS =              BVIS =                LVUPRND=
LTHCNTMP=           ACON =                BCORND=
LQHTCPPT=           LQHTCPTM=             AHC =
LHCLOBND=           SURFTENS=             SFTNTMP=
SOLUBPNT=           SOLUBTMP=             A =
BVP =               CVP =                 VPUPRND=
BVCP =              CVCP =                DVCP =
HTFUSION=           LHTVAPOR=             HTCOMBTN=
HTREACTN= -0.2022E+07  HTPOLYMR=          LOFLMLIM=
TOXINHAL=           INHALCNC=             INHALTME=
LATETOX =           ABFLMTMP=             MOLRATIO=
MOLFRAC =
CRITPRES=           CRITTEMP=
BRHO =              ARHO =
LOVISTMP=           LOVISPT=
LOTHRCND=           LVLWRSD=
LTCLOBND=           LTCUPBND=
LHCUPBND=           EHC =
INTFTMP=            INTFTENS=
AVP =               B =
AVCP =              VPLWRBND=
VHCLOBND=           VHCUPBND=
HTSOLUTN=           HTDECOMP=
BURNRATE=           UPFLMLIM=
UPTOXLIM=           LOTOXLIM=
FLMETEMP=           AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

CCC CHEMNAME = CALCIUM CHLORATE PATHCODE = SS

MOLEWT = 207.0	NBP =	NFP = 613.0	CRITPRES=
DENSITY = 2700. (E)	DENSTEMP= 293.1	SHPSATE=S	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LOVISTMP=
AVIS =	BVIS =	LVUPRBD=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT= 64.00	SOLUBTMP= 291.1	A = -0.9300E-01(E)	AVP (E) =
BVP =	CVP =	VPUPRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN= -0.1300E+06(E)
HTREACTN=	HTPOLYMR=	LOFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-02
LA*ETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS *****

```

CCH  CHEMNAME = CYCLOHEXANONE
      MOLECW = 98.15  NBP = 429.0  PATHCODE = A  P  Q  T  U
      DENSITY = 945.0  DENSTEMP = 293.2  NFP = 242.0  CRITTEMP = 629.0  CRITPRES = 0.3800E+07
      CRHO = 0.0000E+00  LDUPRND = 333.2  SHPSATE=L  ARHO = 1195.  BRHO = -0.8500
      AVIS = -11.78  BVIS = 1658.  LDUPRND = 333.2  LDWRND = 273.2  LQVSPNT = 0.2300E-02  LQVISTMP = 290.5
      LTHCNTMP = 293.2  ACON = 0.3135  BCON = -0.5815E-03  LVLWRND = 283.2  LQTHRCND = 0.1430
      LQHTCPPT = 1830.  LQHTCPTM = 293.2  AHC = 602.2  LTCUPBND = 308.2  LTCLOBND = 273.2
      LHCLOBND = 273.2  SURFTENS = 0.3400E-01  SFTNTMP = 293.2  BHC = 4.187  LHCUPBND = 313.2
      SOLUBPNT = 5.000  SOLUBTMP = 293.2  A = 8.409  INTFTENS = 0.4000E-01(E)  INTFTMP = 293.0 (E)
      BVP = 1460.  CVP = 0.4004E-01  VPUPRND = 423.2  VPLWRND = 283.2  AVCP = -0.2554E+05
      BVCP = 489.9  CVCP = -0.1256  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION = 0.3810E+06  HTVAPOR = 0.3810E+06  HTCOMSTN = -0.3588E+08  HTSOLUTN =
      HTPOLYMR = 1.100  UPFLWLIM = 0.7000E-04
      TOXINHAL = 50.00  INHALCNC = 1.100  LOTOXLM = 0.5000E-03  UPTOXLM = 0.5000E-02
      LATETOX = 0.5000E-03  MOLRATIO = 0.5000E-03  FLMETEMP =
      MOLFRAC =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CCL  CHEM/NAME = CYANOGEN CHLORIDE
      PATHCODE = A C I J X
      MOLEWT = 61.48 NBP = 286.3 NFP = 266.3 CRITTEMP=
      DENSITY = 1222. DENSTEMP= 273.2 SHPSTATE=L ARHO = 1714. CRITPRES=
      CRHO = 0.0000E+00 LDUPREND= 323.2 LDLWRBND= 273.2 LVLWRBND= LVCUPBND= 290.0 (E) LTCLOBND= 273.0 (E)
      AVIS = BVIS = LVUPRBNBND= LVUPRBNBND= LVCUPBND= 290.0 (E) LTCLOBND= 273.0 (E)
      LTHCNTMP= 285.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 290.0 (E) LTCLOBND= 273.0 (E)
      LQHTCPPT= LQHTCPTM= AHC = BHC = LMCUPBND=
      LHCLOBND= SURFTENS= 0.3500E-01(E) SFTNTMP= 285.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 285.0 (E)
      SOLUBPNT= SOLUBTMP= A = B = AVP = 10.00 (E)
      BVP = 1430. (E) CVP = 0.0000E+00(E) VPUPRBNBND= 290.0 (E) VPLWRBND= 273.0 (E) AVCP = 0.2730E+05
      BVCP = 77.04 CVCP = -0.6071E-01 DVCP = 0.0000E+00 VHCUPBND= 600.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.4451E+06 HTCOMBNTN= HTDECONP= HTSOLUTN=
      HTRACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
      TOXINHAL= 0.5000 (E) INHALCNC= INHALTME= LOTOXLM= UPTOXLM=
      LAETOX = ABFLMTMP= MOLRATIO= FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

```

*****
CCN  CHEMNAME = CALCIUM CYANIDE          PATHCODE = SS
MOLECW = 92.00      NBP =
DENSITY = 1100.    (E) DENSITY = 293.1
CRHO =
AVIS =
LTHCNTNP=
LOHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 1.220
LATETOX =
MOLFRAC =

LDUPRBN=
BVIS =
ACON =
LOHTCPTM=
SURFTENS=
SOLUBTMP=
CVP =
CVCP =
LHTVAPOR=
HTPOLYMR=
INHALCNC= 1.220
ABFLMTMP=

NFP =
SHPSSTATE=S
LDLWRBND=
LVUPRBN=
BCON =
AHC =
SFTNTENS=
A =
VPUPRBN=
DVCP =
HICOWSTN=
LOFLMLIM=
INHALTME= 1800.
MOLRATIO=

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= -0.1300E+06(E)
BURNRATE=
UPTOXLIM= 0.5000E-04(E)
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CCP  CHEMNAME = CALCIUM PEROXIDE          PATHCODE = II  RR
MOLEWT = 72.10      NBP =                NFP =
DENSITY = 2920.      DENSTEMP = 298.1      SHPSTATE=S
CRHO =              LDUPRND=              LDLWRBND=
AVIS =              BVIS =                LVUPRND=
LTHCNTMP=           ACON =                BCON =
LQHTCPPT=           LQHTCPTM=             AHC =
LHCLOBND=           SURFTENS=             SFTNTMP=
SOLUBPNT=           SOLUBTMP=             A =
BVP =               CVP =                 VPUPRND=
BVCP =              CVCP =                DVCP =
HTFUSION=           LHTVAPOR=             HTCOMSTN=
HTREACTN=           HTPOLYMR=             LOFLMLIM=
TOXINHAL=           INHALCNC=             INHALTME=
LAETOX =            ABFLMTMP=             MOLRATIO=
MOLFRAC =

CRITPRES=          CRITTEMP=
BRHO =             ARHO =
LOVISTMP=          LOVISPNT=
LOTHRCND=          LVLWRBND=
LTCLOBND=          LTCUPBND=
LHCUPBND=          BHC =
INTFTMP=           INTFTENS=
AVP =              B =
AVCP =             VPLWRBND=
VHCLOBND=          VHCUPBND=
HTSOLUTN=          HTDECOMP= -0.3100E+06
BURNRATE=          UPFLMLIM=
UPTOXLIM=          LOTOXLIM=
FLMETEMP=          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CCR  CHEMNAME = CALCIUM CHROMATE          PATHCODE = SS

MOLEWT = 192.1  NEP =                      NFP =          CRITTEMP=
DENSITY = 1000.  (E) DENSTEMP= 293.1  SHPSTATE=S      ARHO =          CRITPRES=
CRHO =          LDUPRND=                  LDLWRBND=      LQVISPT=      BRHO =
AVIS =          BVIS =                  LVUPRND=      LVLWRBND=      LQVISTMP=
LTHCNTMP=      ACON =                  BCON =      LTCUPEND=      LQTHRCND=
LQHTCPPT=      LQHTCPTM=                AHC =      LTCLOBND=      LTCLOBND=
LHCLOBND=      SURFTENS=                SFTNTMP=      EHC =          LHCUPEND=
SOLUBPNT= 11.50  SOLUBTMP= 293.1  A = 1.886          INTFTMP=      INTFTMP=
BVP =          CVP =                  VPUPRND=      B = 0.3300E-01  AVP =
BVCP =          CVCP =                  DVCP =      VPLWRBND=      AVCP =
HTFUSION=      LHTVAPOR=                HTCONSTN=      VHCUPBND=      VHCLOBND=
HTREACTN=      HTPOLYMR=                LOFLMLIM=      HTDECOMP=      HTSOLUTN=
TOXINHAL= 0.1170E-01  INHALCNC=          INHALTME=      UPFLMLIM=      BURNRATE=
LAFETOX =      ABFLMTMP=                MOLRATIO=      LOTOXLM=      UPTOXLIM= 0.5000E-04
MOLFRAC =                                MOLRATIO=      AIRFUEL =      FLMETEMP=
  
```

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

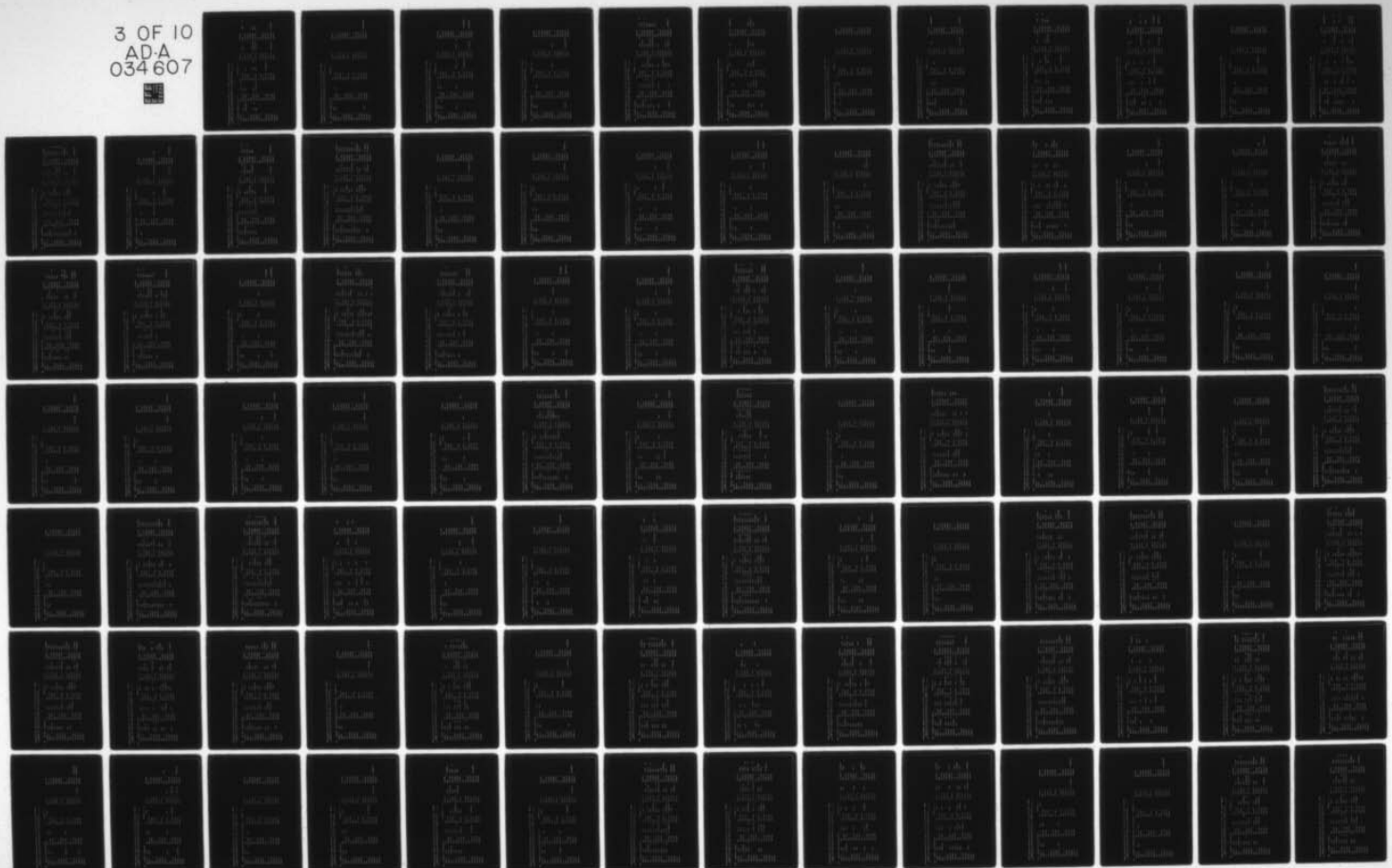
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

3 OF 10
AD-A
034607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

CCT	CHEMNAME = CREOSOTE, COAL TAR	PATHCODE = A	T	U	X	Y
MOLEWT =	NBP = 353.0	(E) NFP =			CRITTEMP =	
DENSITY =	1070. (E) DENSTEMP = 268.1	SHRSTATE=L			ARHO = 1363. (E) BRHO =	-1.000 (E)
CRHO =	0.0000E+00 (E) LDUPREND = 298.1	LDLWREND =	283.1		LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =			LVLWREND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =			LTCUPREND =	LTCLOBND =
LQHTCPPT =	1675. (E) LQHTCPTM = 293.1	AHC =	1675. (E) SHC =			LHCUPBND = 298.1
LHCLOBND =	283.1 SURFTENS = 0.1500E-01 (E) SFTNTEMP = 293.1				INTFTENS =	INTFTTMP = 293.1
SOLUBPNT =	SOLUBTMP =	A =			B =	AVP =
BVP =	CVP =	VPUPREND =			VPLWREND =	AVCP =
BVCP =	CVCP =	DVCP =			VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2900E+08 (E) HTDECOMP =				HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =			UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =			LOTOXLIN =	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =			AIRFUEL =	FLMETEMP =
MOLFRAC =						0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CCY  CHEMNAME = COPPER CYANIDE                PATHCODE = II
      MOLEWT = 89.56      NBP =                CRITPRES=
      DENSITY = 2920.      DENSTEMP= 293.1      BRHO =
      CRHO =              LDUPREND=              LOVISIMP=
      AVIS =              BVIS =                LOTHRCND=
      LTHCNTMP=           ACON =                LTCLOBND=
      LQHTCPT=            LQHTCPTM=             LHCUPBND=
      LHCLOBND=           SURFTENS=             INTFTTMP=
      SOLUBPNT=           SOLUBTMP=             AVP =
      BVP =              CVP =                 AVCP =
      BVCP =             CVCP =                VHCLOBND=
      HTFUSION=          LHTVAPOR=             HTSOLUTN=
      HTREACTN=          HTPOLYMR=             UPFLMLIN=
      TOXINHAL=          1.250      INHALCNC=    BURNRATE=
      LATETOX =          ABFLMTMP=             UPTOXLIN=
      MOLFRAC =          MOLRATIO=             FLMETEMP=

```

0.5000E-04(E)

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CDC	CHEMNAME = CADMIUM CHLORIDE	PATHCODE = SS
MOLEWT =	228.4	NFP =
DENSITY =	4050.	SHSTATE=S
CRHO =		LDLWRBND=
AVIS =		LVUPRBN=
LTHCNTMP=		BCON =
LQHTCPT=		AHC =
LHCLOBND=		SFTNTMP=
SOLUBPNT=		A = -466.2
BVP =		VPUPRBN=
BVCP =		DVCP =
HTFUSION=		HTCOMBN=
HTREACTN=		LOFLMLIM=
TOXINHAL=	0.2000E-01	INHALTME=
LAETOX =		ABFLMTMP=
MOLFRAC =		MOLRATIO=
		CRITTEMP=
		BRHO =
		LOVISTMP=
		LOTHRCND=
		LTCLOBND=
		LHCUPBND=
		INTFTTMP=
		AVP =
		AVCP =
		VHCLOBND=
		HTSOLUTN=
		BURNRATE=
		LOTOXLIM=
		UPFLMLIM=
		0.5000E-04(E) UPTOXLIM=
		AIRFUEL =
		FLMETEMP=

PROPER

CDN	CHEMNAME = CHLORDANE	PATHCODE = A	X	Y
MOLEWT =	409.8	NBP =		
DENSITY =	1600.	SHSTATE=L		
CRHO =	0.0000E+00(E)	LDLWRND=	283.1	CRITTEMP=
AVIS =	-11.38 (E)	BVIS =	2800.	CRITPRES=
LTHCNTMP=	293.1	ACON =	0.1744	
LQHTCPT=	1256.	(E) LQHTCPT=	293.1	
LHCLOBND=	288.1	SURTEMP=	0.2500E-01(E)	
SOLUBPNT=		SOLUBTMP=	A =	
BVP =	7880.	CVP =	-0.1500	
BVCP =		CVCP =		
HTFUSION=		LHTVAPOR=		
HTREACTN=		HTPOLYMR=		
TOXINHAL=	0.2700E-01	INHALCNC=	0.1100	
LATETOX =		ABFLMTMP=		
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CDO  CHEMNAME = CARBON DIOXIDE          PATHCODE = A  C  II
MOLEWT = 44.00      NBP =              NFP = 194.7      CRITTEMP= 304.0      CRITPRES= 0.7400E+07
DENSITY = 1560.     DENSTEMP= 194.1    SHPSTATE=L      ARHO =              BRHO =
CRHO =              LDUPREND=          LDLWRBND=      LQVISPT=      LQVISTMP=
AVIS =              BVIS =              LVLWRBND=      LQTHRCND=
LTHCNTMP=          ACON =              LTCUPBND=      LTCLOBND=
LQHTCPPT=          LQHTCPTM=          BHC =              LHCUPBND=
LHCLOBND=          SURFTENS=          INTFTEMP=      INTFTIMP=
SOLUBPNT= 0.2260   SOLUBTMP= 288.1    A = 2.561      E = -0.8100E-02    AVP = 9.689
BVP = 858.7        CVP = -0.1500      VPUPRBND= 298.1    VPLWRBND= 233.1    AVCP = 0.3107E+05
BVCP = 19.15      CVCP = 0.0000E+00      DVCP = 0.0000E+00    VHCUPBND= 370.0    VHCLOBND= 273.0
HTFUSION=          LHTVAPOR= 0.3500E+06    HTCOMSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=              LOFLMLIM=          UPFLMLIM=
TOXINHAL= 5000.    INHALCNC=              INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=              MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CES CHEMNAME = CUPRIETHYLENEDIAMINE SOLUTION PATHCODE = A P Q

MOLECWT =	NBP	=	373.0	(E)	NFP	=	CRITTEMP=
DENSITY =	1100.	(E)	DENSTEMP=	293.1			BRHO =
CRHO =			LDUPREND=				LOVISTMP=
AVIS =			BVIS =				LQTHRCND=
LTHCNTMP=			ACON =				LTCLOBND=
LQHTCPPT=			LQHTCPTM=				LHCUPEND=
LHCLOBND=			SURFTENS=				INTFTTMP=
SOLUBPNT=			SOLUBTMP=				AVP =
BVP =			CVP =				AVCP =
BVCP =			CVCP =				VHCLOBND=
HTFUSION=			LHTVAPOR=				HTSOLUTN=
HTREACTN=			HTPOLYMR=				BURNRATE=
TOXINHAL=			INHALCNC=				UPTOXLIN=
LAJETOX =			ABFLMTMP=				FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CFB CHEMNAME = CADMIUM FLUOROBORATE PATHCODE = A P

MOLECWT =	286.0	NBP =		CRITTEMP =		CRITPRES =	
DENSITY =	1600.	DENSTEMP =	293.1	ARHC =	1800.	BRHO =	0.0000E+00
CRHO =	0.0000E+00	LDUPRBND =	298.1	LDLWRBND =	283.1	LQVISTMP =	
AVIS =		BVIS =		LVUPRBND =		LQTHRCND =	
LTHCNTMP =		ACON =		BCON =		LTCLOBND =	
LQHTCPPT =		LQHTCPTM =		AHC =		LHCUPBND =	
LHCLOBND =		SURFTENS =		SFTNTMP =		INTFTTMP =	
SOLUBPNT =		SOLUBTMP =		A =		AVP =	
BVP =		CVP =		VPUPRBND =		AVCP =	
BVCP =		CVCP =		DVCP =		VHCLOBND =	
HTFUSION =		LHTVAPOR =		HTCONVSTN =		HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLMLIN =		BURNRATE =	
TOXINHAL =	0.1570E-01	INHALCNC =		INHALTWE =		UPTOXLIM =	0.5000E-03
LAFETOX =		ABFLMTMP =		MOLRATIO =		LOTOXLIN =	0.5000E-04
MOLFRAC =						AIRFUEL =	FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CGE CHEMNAME = CRESYL GLYCIDYL ETHER

PATHCODE	A	T	U	X	Y
000000	0	0	0	0	0
000001	0	0	0	0	1
000002	0	0	0	0	0
000003	0	0	0	0	0
000004	0	0	0	0	0
000005	0	0	0	0	0
000006	0	0	0	0	0
000007	0	0	0	0	0
000008	0	0	0	0	0
000009	0	0	0	0	0
000010	0	0	0	0	0
000011	0	0	0	0	0
000012	0	0	0	0	0
000013	0	0	0	0	0
000014	0	0	0	0	0
000015	0	0	0	0	0
000016	0	0	0	0	0
000017	0	0	0	0	0
000018	0	0	0	0	0
000019	0	0	0	0	0
000020	0	0	0	0	0
000021	0	0	0	0	0
000022	0	0	0	0	0
000023	0	0	0	0	0
000024	0	0	0	0	0
000025	0	0	0	0	0
000026	0	0	0	0	0
000027	0	0	0	0	0
000028	0	0	0	0	0
000029	0	0	0	0	0
000030	0	0	0	0	0
000031	0	0	0	0	0
000032	0	0	0	0	0
000033	0	0	0	0	0
000034	0	0	0	0	0
000035	0	0	0	0	0
000036	0	0	0	0	0
000037	0	0	0	0	0
000038	0	0	0	0	0
000039	0	0	0	0	0
000040	0	0	0	0	0
000041	0	0	0	0	0
000042	0	0	0	0	0
000043	0	0	0	0	0
000044	0	0	0	0	0
000045	0	0	0	0	0
000046	0	0	0	0	0
000047	0	0	0	0	0
000048	0	0	0	0	0
000049	0	0	0	0	0
000050	0	0	0	0	0
000051	0	0	0	0	0
000052	0	0	0	0	0
000053	0	0	0	0	0
000054	0	0	0	0	0
000055	0	0	0	0	0
000056	0	0	0	0	0
000057	0	0	0	0	0
000058	0	0	0	0	0
000059	0	0	0	0	0
000060	0	0	0	0	0
000061	0	0	0	0	0
000062	0	0	0	0	0
000063	0	0	0	0	0
000064	0	0	0	0	0
000065	0	0	0	0	0
000066	0	0	0	0	0
000067	0	0	0	0	0
000068	0	0	0	0	0
000069	0	0	0	0	0
000070	0	0	0	0	0
000071	0	0	0	0	0
000072	0	0	0	0	0
000073	0	0	0	0	0
000074	0	0	0		

MOLECWT =	164.0	NBP	=	532.0	(E) NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1090.	DENSTEMP=		293.1	SHPSSTATE=L		ARHO	= 1383. (E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LDUPREND=		292.1	LDLWRBND=		278.1	LQVISTMP=
AVIS =		BVIS =			LVUPRBND=			LQTHRCND=
LTHCNTMP=	293.1	ACON =		0.1512	(E) BCON =		0.0000E+00(E)	LTCLOBND=
LQHTCPTP=	2093. (E)	LQHTCPTM=		293.1	AHC =		2093. (E) EHC =	LHCUPEND=
LHCLOBND=	283.1	SURFTENS=			SFTNTMP=			INTFTTMP=
SOLUBPNT=		SOLUBTMP=			A =		B	AVP =
BVP =		CVP =			VPUPRBND=		VPLWRBND=	AVCP =
BVCP =		CVCP =			DVCP =		VHCUPBND=	VHCLOBND=
HTEFUSION=		LHTVAPOR=			HTCONSTN=		-0.3840E+08(E)	HTSOLUTN=
HTREACTN=		HTPOLYMR=			LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=			INHALTME=		LOTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=			MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CHA  CHEMNAME = CYCLOHEXYLAMINE
      MOLECW = 99.18      NBP = 407.7      NFP = 255.5      CRITTEMP = 615.0      CRITPRES =
      DENSITY = 865.0      DENSTEMP = 293.2      SHPSTATE=L      ARHO = 1134.      BRHO = -0.9200
      CRHO = 0.0000E+00      LDUPREND = 373.2      LDWRBND = 273.2      LQVISPNT = LQVISTMP =
      AVIS =      BVIS =      LVUPREND =      LVLWRBND = LQTHRCND =
      LTHCNTMP =      ACON =      BCON =      LTCUPBND = LTCLOBND =
      LQHTCPPT = 2300.      (E) LQHTCPTM = 293.0      (E) AHC = 2300.      (E) SHC = 0.0000E+00(E) LHCUPBND = 300.0      (E)
      LHCLOBND = 273.0      (E) SURFTENS =      SFTNTEMP =      INTFTENS =      INTFTIMP =
      SOLUBPNT =      SOLUSTMP =      A =      B =      AVP = 9.985
      BVP = 2030.      CVP = 0.4004E-01      VPUPREND = 413.2      VPLWRBND = 293.2      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND = VHCLOBND =
      HTFUSION =      LHTVAPOR = 0.3668E+06      HTCOMBNTN = -0.4200E+08(E) HTDECOMP =      HTSOLUTN = -0.1000E+05(E)
      HTREACTN =      HTPOLYMR =      LOFLWLIM =      UPFLWLIM =      BURNRATE =
      TOXINHAL = 68.00      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-04      UPTOXLIM = 0.5000E-03
      LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/09 PAGE200

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CHC	CHEMNAME = CHARCOAL	PATHCODE = II	
MOLEWT = 12.00	NBP =	NFP =	CRITPRES=
DENSITY = 2000.	DENSTEMP= 293.1	SHPSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNIEMP=	INTFTTMP=
SOLUBENT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMETN= -0.3280E+08	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LAETOX =	ABFLWTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CHD  CHEMNAME = CHLOROHYDRINS (CRUDE)      PATHCODE = A  P  Q
      MOLEWT =      NBP =      CRITPRES=
      DENSITY = 1180.  DENSTEMP= 293.2  SHPSSTATE=L  ARHO = 1180.  (E) BRHO = 0.0000E+00(E)
      CRHO = 0.0000E+00(E) LDUPREND= 300.0  (E) LDLWRBND= 273.0  (E) LOVISPT=  LVLWRBND=
      AVIS =      BVIS =      LVUPREND=  LVUPREND=  LTCUPBND=  LTCLOBND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=  LTCLOBND=
      LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E) LHCUPEND= 300.0  (E)
      LHCLOBND= 273.0  (E) SURFTENS=      SFTNTEMP=      INTFTEMP=
      SOLUBPNT= 6.000  SOLUBTMP= 298.2  A =      B =      AVP = 11.28  (E)
      BVP = 2467.  (E) CVP = 0.0000E+00(E) VPUPREND= 350.0  (E) VPLWRBND= 273.0  (E) AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=  VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.4100E+06(E) HTCCOBTN= -0.1884E+08(E) HTDECCNP=      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLMLIM= 3.800  UPFLMLIM=      BURNRATE= 0.4333E-04
      TOXINHAL= 5.000  INHALCNC= 10.00  INHALIME= 1800.  LOTCX LIM= 0.5000E-04  UPTOX LIM= 0.5000E-03
      LAFETOX =      ABFLWMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

CHN CHEMNAME = CYCLOHEXANOL

PATHCODE = A P O T U

MOLEWT = 100.2	NBP = 434.0	NFP = 296.8	CRITTEMP = 625.0	CRITPRES = 0.3700E+07
DENSITY = 947.0	DENSTMP = 293.2	SHESTATE = L	ARHO = 1171.	BRHO = -0.7600
CRHO = 0.0000E+00	LDUPEND = 363.2	LDLWEND = 283.2	LOVISINT = 0.7700E-01	LOVISIMP = 293.2
AVIS = -21.66	BVIS = 5600.	LVUPEND = 323.2	LVLREND = 293.2	LOTHREND = 0.1500 (E)
LTHCNTMP = 310.0 (E)	ACON = 0.1500 (E)	BCON = 0.0000E+00 (E)	LTCUPEND = 330.0 (E)	LTCLOBND = 300.0 (E)
LQHTCPT = 2100. (E)	LOHTCPTN = 310.0 (E)	AHC = 2100. (E)	BHC = 0.0000E+00 (E)	LHCUPEND = 330.0 (E)
LHCLOBND = 300.0 (E)	SURFTENS = 0.3420E-01	SFTNEMP = 289.4	INTTENS = 0.4000E-01 (E)	INTFTIMP = 310.0 (E)
SOLUBPNT = 4.300	SOLUBTMP = 288.2	A =	AVP =	AVP = 10.14 (E)
BVP = 2237. (E)	CVP = 0.0000E+00 (E)	VPUPEND = 430.0 (E)	VPLWEND = 300.0 (E)	AVCP = -0.2412E+05
BVCP = 556.8	CVCP = -0.1675	DVCP = 0.0000E+00	VHCUPEND = 600.0	VHCLOBND = 250.0
HTFUSION = 0.1696E+05	LHTVAPOR = 0.4564E+06	HTCONDSTN = -0.3710E+08 (E)	HTDECOND =	HTSOLUTN =
HTREACTN =	HTPOLYWR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL = 50.00	INHALCNC =	INHALTIME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CHP  CHEMNAME = CYCLOHEXANONE PEROXIDE
MOLEWT =          NBP =          PATHCODE = A  T  U  X  Y
DENSITY = 1050.    DENSTENP= 293.1  SHPSIATE=L
CRHO =          LDUPRND=          LQVISPNT=
AVIS =          BVIS =          LVLWRBND=
LTHCNTMP=        ACON =          LTCUPBND=
LQHTCPPT=        LQHTCPTM=        SHC =
LHCLOBND=        SURFTENS= 0.3000E-01(E) SFTNTMP= 293.1  INTFTENS= 0.3500E-01(E) INTFTTMP= 293.1
SOLUBPNT=        SOLUBTMP=        A =          B =          AVP =
BVP =          CVP =          VPUPRND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=        LHTVAPOR=        HTCOMBTN= -0.3300E+08(E) HTDECOMP=        HTSOLUTN=
HTREACTN=        HTPOLYMR=        LOFLVLIM=          UPFLVLIM=          BURNRATE=
TOXINHAL=        INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LAETOX =          ABFLWTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CHX CHEMNAME = CYCLOHEXANE

PATHCODE = A T U V W

MOLEWT = 84.16	NBP = 353.9	NFP = 279.8	CRITTEMP = 553.5	CRITPRES = 0.4070E+07
DENSITY = 779.0	DENSTEMP = 293.2	SHPSSTATE=L	BRHO = 967.7	BRHO = -0.3601
CRHO = -0.9700E-03	LDUPREND = 363.2	LDLWPSND = 283.2	LQVISPNT = 0.1043E-02	LQVISTMP = 288.2
AVIS = -12.30	BVIS = 1567.	LVUPRSND = 313.2	LVLWRBND = 283.2	LQTHRCND = 0.1337
LTHCNTMP = 293.2	ACON = 0.4747	BCON = -0.1163E-02	LTCUPBND = 313.2	LTCLOBND = 283.2
LQHTCPPT = 1817.	LQHTCPTM = 293.2	AHC = 589.7	BHC = 4.187	LHCUPBND = 353.2
LHCLOBND = 278.2	SURFTENS = 0.2460E-01	SFTNTMP = 293.2	INTFTENS = 0.5000E-01(E)	INTFTIMP = 293.0 (E
SOLUBPNT = 0.1500E-01	SOLUBTMP = 301.5	A =	B =	AVP = 9.871
BVP = 1720.	CVP = 0.4004E-01	VPUPRSND = 353.2	VPLWRBND = 278.2	AVCP = -0.3630E+05
BVCP = 515.0	CVCP = -0.1235	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3559E+06	HTCONSTN = -0.4346E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.330	UPFLMLIM = 8.350	BURNRATE = 0.1150E-03
TOXINHAL = 300.0	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CHY  CHEMNAME = CALCIUM HYPOCHLORITE          PATHCODE = SS
MOLEWT = 175.0      NBP =                      NFP =
DENSITY = 2350.     DENSTEMP= 293.2             SHPSTATE=S
CRHO =              LDUPRND=                    LDLWRND=
AVIS =              BVIS =                      LVUPRND=
LTHCNTMP=           ACON =                      BCON =
LQHTCPPT=           LQHTCPTM=                   AHC =
LHCLOBND=           SURFTENS=                   SFTNTEMP=
SOLUBPNT=           SOLUBTMP=                   A =
BVP =               CVP =                       VPUPRND=
BVCP =              CVCP =                     DVCP =
HTFUSION=           LHTVAPOR=                   HTCOMSTN=
HTREACTN=           HTPOLYMR=                   LOFLWLM=
TOXINHAL=           INHALCNC=                   INHALTIME=
LATETOX =           ABFLMTMP=                   MOLRATIO=
MOLFRAC =

```

```

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
AIRFUEL =
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CID      CHEMNAME = COPPER IODIDE                PATHCODE = II
MOLECWT = 190.4      NBP      = 1563.      CRITTEMP=
DENSITY = 5620.      DENSTEMP= 293.1      ARHO      =
CRHO      =          LDUPRBD=          LQVISPT=    LQVISTMP=
AVIS      =          BVIS      =          LVLWRBD=    LQTHRCND=
LTHCNTMP=          ACON      =          LTCUPBD=    LTCLOBND=
LQHTCPPT=          LQHTCPTM=          BHC          =    LHCUPBND=
LHCLOBND=          SURFTENS=          INTFTEMP=    INTFTIMP=
SOLUBPNT=          SOLUBTMP=          B          =    AVP          =
BVP      =          CVP      =          VPLWRBD=    AVCP          =
BVCP      =          CVCP      =          VHCUPBD=    VHCLOBND=
HTFUSION=          LHTVAPOR=          HTDECOMP=    HTSOLUTN=
HTREACTN=          HTPOLYMR=          UPFLWLIM=    BURNRATE=
TOXINHAL=          INHALCNC=          LOTOXLIM=    UPTOXLIM=
LAFETOX =          ABFLWIMP=          AIRFUEL =    FLMETEMP=
MOLFRAC =
0.5000E-04      0.5000E-03

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CIT CHEMNAME = CITRIC ACID PATHCODE = SS

MOLEWT = 192.1	NEP =	NFP = 426.0	CRITTEMP =	CRITPRES =
DENSITY = 1540.	DENSTEMP = 293.1	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWREND =	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 146.0	SOLUBTMP = 293.1	A = -587.3	B = 2.500	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPEND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.2050E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLYLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTNE =	LOTOXLIM = 0.1500E-01(E)	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CLC  CHEMNAME = CALCIUM CHLORIDE          PATHCODE = SS
MOLEWT = 111.0      NBP =
DENSITY = 2150.     DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 74.50    SOLUBTMP= 293.1
EVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= -0.6790E+06
BURNRATE=
UPTOXLIN= 0.5000E-02
FLMETEMP=

CRITTEMP=
ARHO =
LOVISPT=
LVLRBND=
LTCUPBND=
BHC =
INTFTENS=
B = 0.7500
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTOXLIN= 0.5000E-03
AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CLD  CHEMNAME = COLLODION      PATHCODE = A  T  U  V  W
MOLEWT =          NBP =          307.0      CRITTEMP=
DENSITY = 700.0      DENSTEMP= 293.1      ARHO =
CRHO =          LDUPRND=          BCON =          LTCUPBND=
AVIS =          BVIS =          ACON =          LHCUPBND=
LTHCNTMP=          LQHTCPTM=          AHC =          LTCLOEND=
LHCLOBND=          SURFTENS=          SFTNTEMP=          BHC =
SOLUBPNT=          SOLUBTMP=          A =          INTFTMP=
BVP =          CVP =          VPUPRND=          B =          AVP =
BVCP =          CVCP =          DVCP =          VPLWRBND=
HTFUSION=          LHTVAPOR=          HTCONSTN=          VHCUPBND=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.900      VHCLOBND=
TOXINHAL= 400.0      INHALCNC=          INHALTME=          HTSOLUTN=
LATETOX =          ABFLWTMP=          MOLRATIO=          BURNRATE=
MOLFRAC =          WOLFRAC=          LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
          FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CLX  CHEMNAME = CHLORINE
      MOLECW = 70.91      NBP = 239.1      CRITPRES = 0.7704E+07
      DENSITY = 1424.      DENSTEMP = 288.2      SHPSTATE=L      ARHO = 2170.
      CRHO = 0.0000E+00    LDUPRND = 293.2      LDWRBND = 233.2      LQVISTMP =
      AVIS =              BVIS =              LVUPRND =              LQTHRCND =
      LTHCNTMP =          ACON =              LTCUPBND =              LTCLOBND =
      LQHTCPT = 544.3      LQHTCPTM = 293.2      AHC = -69.42      BHC = 2.093
      LHCLOBND = 273.2      SURFTENS = 0.2655E-01      SFTNTMP = 237.9      INTFTENS =
      SOLUBPNT = 0.6500      SOLUBTMP = 298.2      A =              B =
      BVP = 1086.          CVP = 0.4004E-01      VPUPRND = 283.2      VPLWRBND = 223.2
      BVCP = 32.36         CVCP = -0.2721E-01      DVCP = 0.0000E+00      VHCUPBND = 500.0
      HTFUSION =          LHTVAPOR = 0.2876E+06      HTCO:GIN =              HTSOLUTN =
      HTREACTN =          HTPOLYMR =              LOFLYLM =              BURNRATE =
      TOXINHAL = 1.000      INHALCNC = 3.000      INHALTME = 300.0      LOTOXLM =
      LAIETOX =          ABFLWTMP =              MOLRATIO =              AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMA	CHEMNAME = CHROMIC ANHYDRIDE	PATHCODE = SS	
MOLEWT =	100.0	NFP =	CRITPRES=
DENSITY =	2700.	SHRSTATE=S	BRHO =
CRHO =		LDLWRBND=	LQVISTMP=
AVIS =		LVUPRBND=	LQTHRCND=
LTHCNTMP=		BCON =	LTCLOBND=
LQHTCPPT=		AHC =	LHCUPBND=
LHCLOBND=		SFINTEMP=	INTFTIMP=
SOLUBPNT=		A = 79.05	AVP =
BVP =		VPUPRBND=	AVCP =
BVCP =		DVCP =	VHCLOBND=
HTFUSION=		HTCOMBNTN=	HTSOLUTN=
HTREACTN=		LOFLMLIM=	BURNRATE=
TOXINHAL=		INHALTME=	UPTOXLIM= 0.5000E-03
LATETOX =		ABFLMTMP=	FLMETEMP=
MOLFRAC =		MOLRATIO=	
			0.5000E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CMC  CHEMNAME = CHROMYL CHLORIDE          PATHCODE = A  0
      MOLECWT = 154.9      NBP = 389.0      NFP = 176.7      CRITPRES=
      DENSITY = 1960.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 2470.      BRHO = -1.850
      CRHO = 0.0000E+00      LDUPREND= 303.1      LDLPREND= 273.1      LQVISPNT= 0.8200E-03(E) LQVISTMP= 293.1
      AVIS = -11.61      BVIS = 1320.      LVUPREND= 298.1      LVLWRBND= 283.1      LQTHRCND= 0.1512 (E
      LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
      LOHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6 (E) BHC = 4.187 (E) LHCUPBND= 303.1
      LHCLOBND= 283.1      SURFTENS= 0.3661E-01      SFTNTMP= 292.1      INTFTENS= 10.45
      SOLUBTMP= 2118.      CVP = -0.1500      VPUPREND= 393.1      VPLWRBND= 273.1      AVCP = 0.3768E+05(E
      BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 320.0      VHCLOBND= 270.0
      HTFUSION= 0.2620E+06      HTCONSTN= 0.0000E+00(E) HTSOLUTN= -0.6480E+06
      HTPOLYMR= 0.0000E+00(E) HTDECON= 0.0000E+00(E) BURNRATE=
      TOXINHAL= 0.0000E+00(E) INHALCNC= 0.0000E+00(E) LOTOXLIM= 0.5000E-04(E
      LAIETOX = 0.0000E+00(E) ABFLWTMP= 0.0000E+00(E) AIRFUEL =
      MOLFRAC = 0.0000E+00(E) MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CME      CHEMNAME = CHLOROMETHYL METHYL ETHER      PATHCODE = A  O  T  U  V  W  X  Y
MOLEWT = 80.50      NBP = 333.0      NFP = 169.7      CRITTEMP=
DENSITY = 1070.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 1455.      BRHO = -1.300
CRHO = 0.0000E+00      LOUPRBND= 303.1      LDLWRBND= 273.1      LOVISPNT= 0.2100E-03(E) LOVISTMP= 293.1
AVIS = -11.21      (E) BVIS = 800.0      (E) LVUPRBND= 303.1      LVLWRBND= 273.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 273.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 656.7      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.3000E 01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPNT=
SOLUBTMP=
BVP = 1506.      (E) CVP = -0.1500      (E) VPUPRBND= 333.1      VPLWRBND= 293.1      AVCP = 0.2895E+03(E)
BVCP = 187.6      (E) CVCP = -0.7214E-01(E) DVCP = 0.5355E-05(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=
LHTVAPOR= 0.3580E+06(E) HTCOMBNTN= -0.1700E+08(E) HTDECOMP=
HTPOLYMR=
HTREACTN=
LOFLMLIM=
UPFLMLIM=
TOXINHAL=
INHALCNC=
LOXALIM=
LOTOXALIM=
LAFETOX =
ABFLMTMP=
MOLRATIO=
AIRFUEL =
MOLFRAC =
BURNRATE= 0.5010E-04
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMN	CHEMNAME = CADMIUM NITRATE	PATHCODE = SS	
MOLEWT =	308.5	NFP =	332.0
DENSITY =	2450.	SHSTATE=S	
CRHO =		LDLWRBND=	
AVIS =		LVUPREND=	
LTHCNTMP=		BCON =	
LQHTCPPT=		AHC =	
LHCLOBND=		SFTNTENS=	
SOLUBPNT=	122.0	SOLUBTMP=	273.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=	0.1450E-01	INHALCNC=	
LATETOX =		ABFLMTMP=	
MOLFRAC =			
		CRITTEMP=	
		ARHO =	
		LOVISPNT=	
		LVLWRBND=	
		LTCUPBND=	
		BHC =	
		INTFTENS=	
		AVP =	1.460
		AVCP =	
		VHCLOBND=	
		HTSOLUTN=	0.6910E+05
		BURNRATE=	
		UPTOX LIM=	0.5000E-04(E
		FLMETEMP=	

PATHCODE = A B C D E F G

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CMP      CHEMNAME = P-CYMEANE      PATHCODE = A T U
MOLECWt = 134.2      NBP = 450.2      CRITTEMP=
DENSITY = 857.0      DENSTEMP= 293.1      SHPS:ATE=L      ARHO = 1092.      CRITPRES=
CRHO = 0.0000E+00      LDUPREND= 313.1      LDLEWEND= 273.1      LOVISPAT= 0.8480E-03      LOVISTMP= 293.1      BRHO = -0.8000
AVIS = -11.08      BVIS = 1174.      LVUPREND= 333.1      LVLWREND= 273.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPEND= 298.1      LTCLOEND= 283.1      LTCLOEND= 283.1
LQHTCPPT= 1675.      LQHTCPTM= 273.1      AHC = 531.1 (E) EHC = 4.187 (E) LHCUPEND= 293.1      LHCUPEND= 293.1
LHCLOEND= 273.1      SURFTENS= 0.2809E-01      SFTNTMP= 293.1      INTFTENS= 0.3641E-01      INTFTMP= 293.1      INTFTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.22      AVCP =
BVP = 2348.      CVP = -0.1500      VPUPREND= 453.1      VPLWRBND= 283.1      VHCLOBND=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR= 0.2840E+06      HTCO:STN= -0.4370E+08      HTDECCRP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.7000      UPFLMLIM=      BURNRATE= 0.1015E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CMS

CHEMNAME = CADMIUM SULFATE

PATHCODE = SS

MOLECW = 208.5	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 4700.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPT =	LOVISIMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHROND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTMP =	INTFTMP =
SOLUBPNT = 75.50	SOLUBTMP = 273.1	A = 61.02	B = 0.5300E-01	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECOMP =	HTSOLUTN = -0.2150E+06
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.2150E-01	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-04(E
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CNI      CHEMNAME = COPPER NITRATE
MOLWCWT = 241.6      NBP = 387.7      CRITPRES=
DENSITY = 2320.      DENSTEMP= 293.1  SHPSTATE=S  CRITTEMP=
CRHO =              LDUPREND=          LDLWRBND=  ARHO =
AVIS =              BVIS =              LVUPREND=  LOVISPT=
LTHCNTMP=          ACON =              BCOR =      LVLWRBND=
LOHTCPPT=          LOHTCPTM=          AHC =      LTCUPBND=
LHCLOBND=          SURFTENS=          SFNTTEMP=  BHC =
SOLUBPNT= 124.0     SOLUBTMP= 293.1  A = -490.6  INTFTMP=
BVP =              CVP =              VPUPREND=  B = 2.100  AVP =
BVCP =              CVCP =              DVCV =      VPLWRBND=  AVCP =
HTFUSION=          LHTVAPOR=          HTCOMSTN=  VHCUPBND=  VHCLOBND=
HTREACTN=          HTPOLYMR=          LOFLMLIM=  HTDECOMP=  HTSOLUTN=
TOXINHAL=          INHALCNC=          INHALTME=  UPFLMLIM=  BURNRATE=
LAFETOX =          ABFLMTMP=          MOLRATIO=  LOTOXLIM=  UPTOXLIM= 0.5000E-02
MOLFRAC =          MOLFRAC =          MOLRATIO=  AIRFUEL =  FLMETEMP=

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/47 PAGE223

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CNN	CHEMNAME = COPPER NAPHTHENE										PATHCODE = A T U X Y									
MOLEWT =	NBP = 451.0 (E) NFP =										CRITPRES =									
DENSITY =	990.0 (E) DENSTEMP = 298.1 SHPSTATE=L										CRITTEMP =									
CRHO =	0.0000E+00(E) LDUPRBND = 313.1										CRHO = 780.0 (E) BRHO = 0.0000E+00(E)									
AVIS =	BVIS =										LOVISPAT = 0.9900E-03(E) LOVISTMP = 298.1									
LTHCNTMP =	293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND =										LOTHRCND = 0.1512 (E)									
LQHTCPPT =	2010. (E) LQHTCPTM = 293.1 AHC = 2010. (E) BHC =										LTCLOBND = 283.1									
LHCLOBND =	283.1 SURFTENS = 0.2000E-01 SFTNTMP = 293.1										LHCUPBND = 313.1									
SOLUBPNT =	SOLUBTMP =										INTFTENS = 0.4500E-01 INTFTTMP = 293.1									
BVP =	2086. (E) CVP = -0.1500 (E) VPUPRBND = 450.1										AVP = 9.641 (E)									
BVCP =	CVCP =										VPLWRBND = 300.1									
HTFUSION =	LHTVAPOR =										VHCUPBND =									
HTREACTN =	HTPOLYMR =										HTDECOMP =									
TOXINHAL =	500.0 INHALCNC =										UPFLMLIM = 5.000									
LATETOX =	ABFLMTMP =										LOTOXLIM = 0.5000E-03									
MOLFRAC =											FLMETEMP =									
											BURNRATE = 0.6680E-04									
											UPTOXLIM = 0.5000E-02									

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CNT CHEMNAME = CALCIUM NITRATE

PATHCODE = SS

MOLEWT = 164.0	NBP =	NFP = 834.0	CRITTEMP =	CRITPRES =
DENSITY = 2500.	DENSTEMP = 291.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 266.0	SOLUBTMP = 273.1	A =	B = -3312.	AVP = 13.10
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN = -0.2100E+06(E
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

COL CHEMNAME = COPPER OXALATE PATHCODE = II

MOLEWT = 160.6	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1000. (E) DENSTEMP= 293.1	SHPSRATE=\$		ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LOVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPB:D=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 0.2300E-02	SOLUBTMP= 293.1	A = 0.2300E-02	B = 0.0000E+00	AVP =
BVP =	CVP =	VPUPRND=	VPLWRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPB:D=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CON      CHEMNAME = COBALT NITRATE      PATHCODE = SS
MOLEWT = 291.0      NBP = 328.0
DENSITY = 1540.      DENSTEMP= 293.1
CRHO =              LDUPRND=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LOHTCPPT=           LOHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT= 97.20     SOLUBTMP= 293.1
BVP =              CVP =
BVCP =              CVCP =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITPRES=           CRITTEMP=
BRHO =              ARHO =
LOVISTMP=           LOVISFMT=
LOTHRCND=           LVLWRBND=
LTCLOBND=           LTCUPBND=
LHCUPBND=           SHC =
INTFTIMP=           INTFTENS=
AVP =               B = 0.6600
AVCP =              VPLWRBND=
VHCLOBND=           VHCUPBND=
HTSOLUTN= 0.7100E+05 HTDECOMP=
BURNRATE=           UPFLMLIM=
UPTOXLIM= 0.5000E-04 LOTOXLIM=
FLMETEMP=           AIRFUEL =

```

PATHCODE = SS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

COU CHEMNAME = COUMAPHOS

PATHCODE = II

MOLECW = 362.5	NBP =	NFP = 366.0	CRITTEMP =	CRITPRES =
DENSITY = 1474.	DENSTEMP = 293.1	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	EHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LCFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

0.1000E-03

0.6000E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

COX	CHEMNAME = CADMIUM OXIDE	PATHCODE = II		
MOLEWT =	128.4	NBP =	CRITPRES =	
DENSITY =	6950.	DENSTMP =	293.1	BRHO =
CRHO =		LDUPREND =		LOVISTMP =
AVIS =		BVIS =		LOTHRCND =
LTHCNTMP =		ACON =		LTCLOBND =
LQHTCPPT =		LQHTCPTM =		LHCUPBND =
LHCLOBND =		SURFTENS =		INTFTTMP =
SOLUBPNT =		SOLUBTMP =		AVP =
BVP =		CVP =		AVCP =
BVCP =		CVCP =		VHCLOBND =
HTFUSION =		LHTVAPOR =		HTSOLUTN =
HTREACTN =		HTPOLYMR =		BURNRATE =
TOXINHAL =	0.1750E-01	INHALCNC =	0.1750E-01	UPTOXLIM =
LAETOX =		ABFLMTMP =		FLMETEMP =
MOLFRAC =				
		INHALTME =	1800.	0.5000E-04
		LOFLMLIM =		0.5000E-03
		LOTOXLIM =		
		AIRFUEL =		

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/48/55 PAGE230

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPA	CHEMNAME = COPPER ARSENITE	PATHCODE = II	
MOLECWT =	277.4	NBP =	
DENSITY =	1100. (E)	DENSTEMP =	293.1
CRHO =		LDUPRBNB =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.4000E-01	INHALCNC =	
LATETOX =		ABFLWTMP =	
MOLFRAC =			
		CRITTEMP =	
		ARHO =	
		LOVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOMP =	
		UPFLMLIM =	
		LOTOXLIN =	0.5000E-04
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISIMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPB CHEMNAME = COPPER BROMIDE

PATHCODE = SS

MOLEWT = 223.4	NBP =	NFP = 771.0	CRITTEMP=	CRITPRES=
DENSITY = 4770.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 55.90	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMB3TN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM=	UPFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-04
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPC CHEMNAME = COPPER CHLORIDE PATHCODE = SS

MOLECW = 170.5	NBP =	NFP =	CRITPRES =
DENSITY = 2540.	DENSTEMP = 293.1	SHPSSTATE = S	BRHO =
CRHO =	LDUPREND =	LDLWRSND =	LQVISTMP =
AVIS =	BVIS =	LVUPRSND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT = 77.00	SOLUBTMP = 293.1	A = -16.81	AVP =
BVP =	CVP =	VPUPRSND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIN = 0.5000E-03
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPF  CHEMNAME = COPPER FLUOROBORATE          PATHCODE = A  P
MOLEWT = 237.2      NBP = 373.0      (E) NFP =
DENSITY = 1540.     DENSTEMP= 293.1  SHPSTATE=L
CRHO =              LDUPRBND=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LQHTCPPT=           LQHTCPTN=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP =               CVP =
BVCP =              CVCP =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =

CRITPRES=
BRHO =
LOVISIMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM= 0.5000E-04
AIRFUEL =
MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPH  CHEMNAME = CAMPHENE                                PATHCODE = II
MOLEWT = 136.0      NBP = 427.0      NFP = 323.0      CRITPRES=
DENSITY = 870.0      DENSTEMP= 288.1      SHPSTATE=S      CRITTEMP=
CRHO =              LDUPRND=              AARHO =          BRHO =
AVIS =              BVIS =              LVUPRND=          LOVISTMP=
LTHCNTMP=          ACON =              BCON =          LOTHRCND=
LQHTCPPT=          LQHTCPTM=          AHC =          LTCLOBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=        LHCUPEND=
SOLUBPNT=          SOLUBTMP=          A =          INTFTTMP=
BVP = 2412.        CVP = -0.1500      VPUPRND= 427.1      AVP = 10.65
BVCP =            CVCP =              DVCN =          AVCP =
HTFUSION=          LHTVAPOR=          HTCONSTN= -0.4520E+08      VHCLOBND=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          HTSOLUTN=
TOXINHAL=          INHALCNC=          INHALTME=          BURNRATE=
LATETOX =          ABFLMTMP=          MOLRATIO=          UPTOXLIM=
MOLFRAC =          MOLRATIO=          AIRFUEL =          FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPL  CHEMNAME = CHLOROPICRIN. LIQUID          PATHCODE = A  X
MOLECWT = 164.4      NBP = 365.0      NFP = 209.0      CRITPRES=
DENSITY = 1640.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 2136.      BRHO = -2.000
CRHO = 0.0000E+00    LDUPREND= 303.1      LDWPSND= 273.1      LOVISPNT= 0.1098E-02      LQVISTMP= 293.1
AVIS = -10.91        BVIS = 1200.        LVUPRSND= 353.1      LVLWFSND= 283.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E)      BCON = 0.0000E+00(E)      LTCUPEND= 283.1
LQHTCPPT= 1675.      (E)      LQHTCPTM= 293.1      AHC = 1675.      (E)      BHC = 0.0000E+00(E)      LHCUPEND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.3230E-01      SFTNTEMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTMP= 293.1
SOLUBPNT= 0.2272      SOLUBTMP= 273.1      A = 0.9372      B = -0.2400E-02      AVP = 10.17
BVP = 1990.          CVP = -0.1500      VPUPRSND= 393.1      VPLWRSND= 253.1      AVCP = 0.1856E+05(E)
BVCP = 323.7 (E)      CVCP = -0.2706 (E)      DVCP = 0.7620E-04(E)      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=            LHTVAPOR= 0.2400E+06      HTCOMBTN=      HTSOLUTN=
HTREACTN=            HTPOLYMR=                LOFLMLIM=      UPFLMLIM=
TOXINHAL= 0.1000      INHALCNC=                INHALTME=      LOTCX LIM= 0.5000E-04(E)
LATETOX =            ABFLMTMP=                MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPN	CHEMNAME = P-CHLOROPHENOL	PATHCODE = II SS	
MOLEWT =	128.6	NBP =	493.0
DENSITY =	1310.	DENSTMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTN =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	3.200	SOLUBTMP =	298.1
BVP =	2570.	CVP =	-0.1500
BVCP =		CVCP =	
HTFUSION =		LHTVAFOR =	0.3700E+06(E)
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	316.0
		SHPSTATE = S	
		LDLWPSND =	
		LVUPRND =	
		BCON =	
		AHC =	
		SFTNTMP =	
		A =	
		VPUPRND =	493.1
		DVCP =	
		HTCOMBIN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LOVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	463.1
		VHCUPBND =	
		HTDECONP =	
		UPFLMLIM =	
		LOTOXLIM =	0.5000E-03
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	10.22
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPO CHEMNAME = CAMPHOR OIL PATHCODE = A T U

MOLECW =	NBP =	473.0	(E)	NFP =	CRITTEMP =	CRITPRES =
DENSITY =	860.0	(E)	DENSTEMP =	293.2	SHPSTATE=L	ARHO =
CRHO =	0.0000E+00	(E)	LDUPREND =	300.0	(E)	LDLWREND =
AVIS =	-9.340	(E)	BVIS =	1390.	(E)	LVUPREND =
LTHCNTNP =	293.0	(E)	ACON =	0.1300	(E)	BCON =
LQHTCPPT =	2000.	(E)	LQHTCPTM =	293.0	(E)	AHC =
LHCLOBND =	273.0	(E)	SURFTENS =	0.2000E-01	(E)	SFTNTEMP =
SOLUBPNT =			SOLUBTMP =	A =	B =	AVP =
BVP =			CVP =	VPUPREND =	VPLWREND =	AVCP =
BVCP =			CVCP =	DVCP =	VHCUPREND =	VHCLOBND =
HTFUSION =			LHTVAPOR =	HTCOVSTN =	-0.4600E+08	(E)
HTREACTN =			HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	HTSOLUTN =
TOXINHAL =			INHALCNC =	3.000	INHALTME =	1800.
LATETOX =			ABFLMTMP =		MOLRATIO =	UPTOXLIM =
MOLFRAC =						FLMETEMP =

1000. (E) BRHO = 0.0000E+00 (E)
 0.1000E-01 (E) LQVISTMP = 293.0 (E)
 273.0 (E) LQTHRCND = 0.1300 (E)
 300.0 (E) LTCLOBND = 273.0 (E)
 0.0000E+00 (E) LHCUPBND = 300.0 (E)
 0.6000E-01 (E) INTFTIMP = 293.0 (E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPP	CHEMNAME = CALCIUM PHOSPHIDE	PATHCODE = RR	
MOLECWT =	182.2	NFP =	1870.
DENSITY =	2510.	SHPSIATE=S	
CRHO =		LDLWRBND=	LOVISPT=
AVIS =		LVUPRBND=	LVLWRBND=
LTHCNTMP=		BCON =	LTCUPBND=
LQHTCPPT=		AHC =	BHC =
LHCLOBND=		SFTNTMP=	INTFTENS=
SOLUBPNT=		A =	B =
BVP =		VPUPRBND=	VPLWRBND=
BVCP =		DVCP =	VHCUPBND=
HTFUSION=		HTCO:STN=	HTSOLUTN=
HTREACTN=		LOFLMLIN=	UPFLMLIN=
TOXINHAL=		INHALTME=	LOTOXLIN=
LAFETOX =		MOLRATIO=	AIRFUEL =
MOLFRAC =			
			CRITPRES=
			BRHO =
			LQVISTMP=
			LQTHRCND=
			LTCLOBND=
			LHCUPBND=
			INTFTTMP=
			AVP =
			AVCP =
			VHCLOBND=
			HTSOLUTN=
			BURNRATE=
			UPTOXLIM=
			FLMETEMP=

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CPR CHEMNAME = CYCLOPROPANE PATHCODE = A B C D E F G

MOLEWT = 42.10	NBP = 240.3	NFP = 145.8	CRITTEMP = 397.9	CRITPRES = 0.5500E+07		
DENSITY = 676.0	DENSTEMP = 240.1	SHSTATE=L	ARHO = 976.4	BRHO = -1.250		
CRHO = 0.0000E+00	LDUPRBND = 273.1	LDLWRBND = 193.1	LQVISPNT = 0.1600E-03	LQVISTMP = 240.1		
AVIS = -9.852	BVIS = 267.0	LVUPRBND = 273.1	LVLWRBND = 193.1	LQTHRCND = 0.1337		
LTHCNTMP = 240.1	ACON = 0.2656	BCON = -0.5466E-03	LTCUPBND = 273.1	LTCLOSEND = 233.1		
LQHTCPPT = 1951.	LQHTCPTM = 240.1	AHC = 1138.	BHC = 3.391	LHCUPBND = 273.1		
LHCLOBND = 193.1	SURFTENS = 0.2200E-01	SFTNTMP = 233.1	INTFTENS =	INTFTTMP =		
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.941		
BVP = 1186.	CVP = -0.1500	VPUPRBND = 263.1	VPLWRBND = 183.1	AVCP = 1398.		
BVCP = 182.1	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND = 573.0	VHCLOBND = 250.0		
HTFUSION =	LHTVAPOR = 0.4730E+06	HTCOVSTN = -0.4939E+08	HTDECOVP =	HTSOLUTN =		
HTREACTN =	HTPOLYMR =	LOFLMLIM = 2.400	UPFLMLIM = 10.30	BURNRATE =		
TOXINHAL = 400.0	INHLCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =		
LAFETOX =	ABFLMTMP =	MOLRATIO = 0.9167	(E) AIRFUEL = 14.67	(E) FLMETEMP =		
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPS  CHEMNAME = CAUSTIC POTASH SOLUTION          PATHCODE = A  P
      MOLEWT =      NBP =      403.0  (E) NFP =
      DENSITY = 1450.  (E) DENSITY = 293.2
      CRHO =
      AVIS =
      LTHCNTMP =
      LQHTCPPT = 2805.  LQHTCPTM = 293.2  AHC = 1578.
      LHCLOBND = 273.2  SURFTENS =
      SOLUBPNT =
      BVP =
      BVCP =
      HTFUSION =
      HTREACTN =
      TOXINHAL =
      LATETOX =
      MOLFRAC =

      CRITPRES =
      BRHO =
      LQVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND = 313.2
      INTFTTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN = -0.4000E+05(E)
      BURNRATE =
      UPTOXLIM =
      FLMETEMP =

      CRITTEMP =
      ARHO =
      LOVISPNT =
      LVLWRBND =
      LTCUPBND =
      BHC = 4.187
      INTFTENS =
      B =
      VPLWRBND =
      VHCUPBND =
      HTDECOMP =
      UPFLMLIN =
      LOTOXLIN =
      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CPT      CHEMNAME = CAPTAN      PATHCODE = II
MOLEWT = 300.6      NBP =      CRITPRES=
DENSITY = 1740.      DENSTEMP= 293.1      CRITTENP=
CRHO =      LDUPREND=      SHPSTATE=S      ARHO =
AVIS =      BVIS =      LVUPREND=      LQVISTMP=
LTHCNTMP=      ACON =      LTCLOBND=      LQTHRCND=
LQHTCPTM=      LQHTCPTM=      SURFTENS=      LTCLOBND=
LHCLOBND=      SOLUBPNT= 0.3000E-03      298.1      A      = 0.3000E-03      B      = 0.0000E+00      AVP      =
BVP      =      CVP      =      VPUPREND=      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      DVCVP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCON:BTN= -0.1650E+08(E)      HTDECONP=      HTSOLUTN=
HTREACTN=      LHPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM= 0.5000E-02      UPTOXLM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/49/15 PAGE244

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

CRE	CHEMNAME = CALCIUM RESINATE	PATHCODE = II
MOLECWT =	643.0 (E) NBP =	589.0 (E) NFP =
DENSITY =	1130. DENSTEMP =	298.1 SHPSTATE=S
CRHO =	LDUPREND =	LDLWRBND =
AVIS =	BVIS =	LVUPRBND =
LTHCNTMP =	ACON =	BCON =
LQHTCPPT =	LQHTCPTM =	AHC =
LHCLOBND =	SURFTENS =	SFTNTEMP =
SOLUBPNT =	SOLUBTMP =	A =
BVP =	CVP =	VPUPRBND =
BVCP =	CVCP =	DVCP =
HTFUSION =	LHTVAPOR =	HTCOMSTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =
TOXINHAL =	INHALCNC =	INHALTME =
LAIFETOX =	ABFLWTMP =	MOLRATIO =
MOLFRAC =		
		CRITTEMP =
		ARHO =
		LOVISPT =
		LVLWRBND =
		LTCUPBND =
		BHC =
		INTFTMP =
		B =
		VPLWRBND =
		VHCUPBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIN =
		FLMETEMP =
		CRITPRES =
		BRHO =
		LOVISTMP =
		LQTHRCND =
		LTCLOBND =
		LHCUPBND =
		INTFTMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIN =
		FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CRF  CHEMNAME = CHLOROFORM                PATHCODE = A  X
MOLEWT = 119.4      NBP = 334.4      NFP = 209.7      CRITTEMP= 536.4      CRITPRES= 0.5500E+07
DENSITY = 1490.     DENSTEMP= 293.2      SHPSRATE=L      ARHO = 2009.     BRHO = -1.610
CRHO = -0.5300E-03  LDUPRBND= 333.2      LDLWRBND= 223.2      LQVISFNT= 0.5700E-03  LQVISTMP= 293.2
AVIS = -10.26      BVIS = 813.0      LVUPRBND= 373.2      LVLWRBND= 253.2      LQTHRCND= 0.1163
LTHCNTMP= 293.2    ACON = 0.1857      BCON = -0.2326E-03  LTCUPBND= 353.2      LTCLOSND= 213.2
LQHTCPPT= 950.4    LQHTCPTM= 293.2      AHC = 582.2      BHC = 1.256      LHCUPBND= 373.2
LHCLGBND= 253.2    SURTENS= 0.2710E-01  SFTNTMP= 293.2      INTFTNS= 0.3280E-01  INTFTTMP= 293.2
SOLUBPNT= 0.8000      SOLUBTMP= 298.2      A = 10.08      AVP = 10.08
BVP = 1687.     CVP = 0.4004E-01  VPUPRBND= 323.2      VPLWRBND= 233.2      AVCP = 0.2592E+05
BVCP = 168.7     CVCP = -0.1172      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.2483E+06      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
TOXINHAL= 25.00      INHALCNC= 400.0      INHALTME= 1800.     LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LARETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

SYSTEM OF UNITS

CHEMNAME = CRESOLS

Q
T
U
X
Y

MOLECW	108.1	NBP	=	450.0	(E)	NFP	=	CRITTEMP	=	CRITPRES	=							
DENSITY	1030.	(E)	DENSTEMP	=	293.2	SHSTATE=L		ARHO	=	1241.	BRHO	=	-0.7000					
CRHO	=	0.0000E+00	LDUPREND	=	313.2	(E)	LDLWRBND	=	273.2	LOVISPNT	=	0.8200E-02(E)	LOVISTMP	=	293.0	(E)		
AVIS	=	-15.67	(E)	BVIS	=	3185.	(E)	LVDUPREND	=	373.0	(E)	LVLWRBND	=	273.0	(E)	LOTHRCND	=	0.1512
LTHCNTMP	=	293.2	ACON	=	0.1512	BCCN	=	0.0000E+00	LTCUPBND	=	313.2	LTCLOBND	=	283.2				
LQHTCPT	=	2600.	(E)	LQHTCPTM	=	300.0	(E)	AHC	=	2600.	(E)	BHC	=	0.0000E+00(E)	LHCUPBND	=	310.0	(E)
LHCLOBND	=	280.0	(E)	SURFTENS	=	0.3700E-01	SFTNTMP	=	293.2	INTFTENS	=	0.4000E-01(E)	INTFTTMP	=	300.0	(E)		
SOLUBPNT	=	2.200	SOLUBTMP	=	293.2	A	=	B	=	AVP	=	10.18	(E)					
BVP	=	2430.	(E)	CVP	=	0.0000E+00(E)	VPUPREND	=	450.0	(E)	VPLWRBND	=	273.0	(E)	AVCP	=	-0.2010E+05	
BVCP	=	570.5	CVCP	=	-0.2868	DVCP	=	0.0000E+00	VHCUPBND	=	500.0	VHCLBND	=	250.0				
HTFUSION	=	LHTVAPOR	=	0.4600E+06(E)	HTCOMSTN	=	-0.3429E+08(E)	HTDECOMP	=	HTSOLUTN	=							
HTREACTN	=	HTPOLYMR	=	LOFLMLIM	=	UPFLMLIM	=	1.100	BURNRATE	=								
TOXINHAL	=	5.000	INHALCNC	=	INHALTME	=	LOTOXLM	=	0.5000E-03	UPTOXLM	=	0.5000E-02						
LATETOX	=	ABFLMTMP	=	MOLRATIO	=	AIRFUEL	=	FLMETEMP	=									
MOLFRAC	=																	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CSA  CHEMNAME = CHLOROSULFONIC ACID          PATHCODE = A  0
MOLEWT = 116.5      NBP      = 428.0      NFP      = 193.0      CRITPRES=
DENSITY = 1750.     DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 2225.     BRHO      = -1.610
CRHO      = 0.0000E+00  LDUPREND= 373.2      LDLEWREND= 273.2      LQVISPNT=      LOVISTMP=
AVIS      =          BVIS      =          LVUPREND=          LOTHRCND=
LTHCNTMP=          ACON      =          BCON      =          LTCLOBND=
LQHTCPPT= 1172.     LQHTCPTM= 293.2      AHC        = 1172.     LHCUPBND= 353.2
LHCLOBND= 288.2      SURFTENS=          SFTNTEMP=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A          =          B          = 14.66
BVP        = 3830.     CVP        = 0.4004E-01  VPUPREND= 353.2      AVCP      =
BVCP        =          CVCP        =          DVCP        =          VHCLOBND=
HTFUSIGN=          LHTVAPOR= 0.3250E+06(E)  HTCOMSTN=          HTSOLUTN=
HTREACTN= -0.1415E+07  HTPOLYMR=          LOFLNLIM=          BURNRATE=
TOXINHAL= 5.000      INHALCNC= 5.000      INHALTME= 300.0      UPTOXLIM=
LAFETOX    =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =
MOLFRAC    =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSF CHEMNAME = COPPER SULFATE PATHCODE = SS

MOLEWT = 249.7	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2290.	DENSTEMP = 288.2	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	RCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPAT =	SOLUBTMP =	A = -73.31	B = 0.3200	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTIME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSS CHEMNAME = CAUSTIC SODA SOLUTION

PATHCODE = A P

MOLEWT =	NBP =	403.0	(E) NFP =	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.2	SHPSRATE=	ARHO =	BRHO =
CRHO =	LDUPREND=		LDLWRSND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =		LVUPRSND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =		BCON =	LTCUPEND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	298.2	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=		A =	B =	AVP =
BVP =	CVP =		VPUPRSND=	VPLWRBND=	AVCP =
BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLWLIM=	UPFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =					

-0.4000E+05(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CSY CHEMNAME = CORN SYRUP

PATHCODE = A P

MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1400.	DENSTEMP = 310.2	SHPSATE=L	ARHO = 1633.	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPREND = 313.2	LDLWRBND = 273.2	LQVISPAT =	LQVISIMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPEND =	LTCLOBND =
LQHTCPPT = 3000.	(E) LQHTCPTM = 293.0	(E) AHC = 3000.	(E) BHC =	LHCUPBND = 300.0 (E
LHCLOBND = 293.0	(E) SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPREND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMF =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PAYHCODE = A P Q

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CTC      CHEMNAME = CATECHOL      PATHCODE = SS
MOLEWT = 110.1      NBP = 418.7      NFP = 377.5
DENSITY = 1344.      DENSTEMP = 293.1      SHPSTATE=S
CRHO =              LDUPRBND=
AVIS =              BVIS =
LTHCNTMP=          ACON =
LQHTCPPT=          LQHTCPTM=
LHCLOBND=          SURFTENS=
SOLUBPNT= 45.00      SOLUBTMP= 293.1      A =
BVP = 3000.          CVP = -0.1500      VPUPRBND= 523.1
BVCP =              CVCP =
HTFUSION=          LHTVAPOR=
HTREACTN=          HTPOLYMR=
TOXINHAL=          INHALCNC=
LATETOX =          ABFLMTMP=
MOLFRAC =          MOLRATIO=

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 10.79
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=
CRITTEMP=
ARHO =
LQVISPT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND= 378.1
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM= 0.5000E-02
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CTD  CHEMNAME = 4-CHLORO-O-TOLUIDINE          PATHCODE = II
MOLEWT = 141.6      NBP = 514.0      CRITTEMP=
DENSITY = 1100.      (E) DENSTEMP= 293.1      ARHO =
CRHO =              LDUPRND=          LQVISTMP=
AVIS =              BVIS =            LQTHRCND=
LTHCNTMP=          ACON =            LTCLOBND=
LQHTCPPT=          LOHTCPTM=          LHCUPBND=
LHCLOBND=          SURFTES=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          AVP =
BVP =              CVP =              AVCP =
BVCP =              CVCP =            VHCLOBND=
HTFUSION=          LHTVAPOR=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          BURNRATE=
TOXINHAL=          INHALCNC=          UPTOXLIM=
LATETOX =          ABFLMTMP=          FLMETEMP=
MOLFRAC =          MOLRATIO=          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CTF  CHEMNAME = CHLORINE TRIFLUORIDE          PATHCODE = A  C  O
MOLEWT = 92.50      NBP = 284.8      NFP = 197.1      CRITTEMP= 426.0      CRITPRES= 0.5770E+07
DENSITY = 1850.     DENSTEMP= 284.1      SHPSTATE=L      ARHO = 2406.      BRHO = -0.8715
CRHO = -0.3790E-02  LDUPREND= 333.1      LDLWRBND= 273.1      LQVISPAT= 0.4800E-03      LQVISTMP= 284.4
AVIS = -10.45      (E) BVIS = 800.0      (E) LVUPRSND= 284.4      LVLWRBND= 263.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 284.4      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 284.4      LTCLOBND= 273.1
LQHTCPPT= 1269.     LQHTCPTM= 278.2      AHC = 1047.      BHC = 0.7955      LHCUPBND= 284.1
LHCLOBND= 213.1      SURFTENS= 0.2660E-01      SFTNTMP= 273.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.492
BVP = 1097.         CVP = -40.40      VPUPRSND= 303.1      VPLWRBND= 226.1      AVCP = 0.3768E+05(E)
BVCP = 0.0000E+00(E)      CVCP = 0.0000E+00(E)      DVCP = 0.0000E+00(E)      VHCUPBND= 300.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.2980E+06      HTCOMB3TN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1000      INHALCNC= 0.1000      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E)
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CUM      CHEMNAME = CUMENE      PATHCODE = A T U
MOLECWT = 120.2      NBP = 425.6      CRITTEMP= 631.1      CRITPRES= 0.3208E+07
DENSITY = 866.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO = 1122.      BRHO = -0.8900
CRHO = 0.0000E+00      LDUPRBND= 373.2      LDWRSND= 273.2      LOVISPNT= 0.7900E-03      LQVISTMP= 293.2
AVIS = -11.41      BVIS = 1250.      LVUPRSND= 303.2      LVLWRBND= 253.2      LQTHRCND= 0.1256
LTHCNTMP= 293.2      ACON = 0.1938      LQHTCPTM= 293.2      BCON = -0.2326E-03      LTCUPBND= 373.2      LTCLOBND= 263.2
LQHTCPPT= 1717.      SURFTENS= 0.2820E-01      AHC = 1103.      SFTNTMP= 293.2      SHC = 2.093      LHCUPBND= 353.2
LHCLOBND= 263.2      SOLUBTMP= 0.4004E-01      VPUPRSND= 353.2      INTFTENS= 0.5000E-01(E)      INTFTIMP= 293.0 (E)
SOLUBPNT= 1290.      CVP = 0.4004E-01      DVCP = 0.0000E+00      HTCOMSTN= -0.4120E+08      HTSOLUTN=
BVP = 724.3      CVCP = -0.3433      LHTVAPOR= 0.3123E+06      LOFLMLIM= 0.9000      UPFLMLIM= 6.500      BURNRATE= 0.8333E-04
HTFUSION= 1290.      HTPOLYMR= 50.00      INHALCNC= 50.00      INHALTME= 0.5000E-04      UPTOXLIM= 0.5000E-03
HTREACTN= 50.00      ABFLMTMP= 50.00      MOLRATIO= 0.5000E-04      FLMETEMP=
TOXINHAL= 50.00      LAIETOX = 50.00      MOLFRAC = 50.00

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

CYA  CHEMNAME = CYANOACETIC ACID          PATHCODE = SS
MOLEWT = 85.06      NBP =          NFP = 339.0      CRITEMP=
DENSITY = 1100.      (E) DENSTEMP= 293.1            ARHO =
CRHO =              LDUPREND=                    LQVISPT=
AVIS =              BVIS =                      LVLWRBND=
LTHCNTMP=           ACON =                      LTCUPBND=
LQHTCPPT=           LQHTCPTM=                   BHC =
LHCLOBND=           SURFTENS=                   INTFTTMP=
SOLUBTMP=           SOLUBTMP=                   A =
BVP =               CVP =                       VPUPREND=
BVCP =              CVCP =                     DVCP =
HTFUSION=           LHTVAPOR=                   HTCONSTN= -0.1460E+08
HTREACTN=           HTPOLYMR=                   LOFLWLIM=
TOXINHAL=           INHALCNC=                   INHALTME=
LATETOX =           ABFLMTMP=                   MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

CHEMNAME = CYANOGEN

A B C K L M N

Z

399.8 CRITPRES= 0.5910E+07

1206. (E) BRHO = -1.000 (E)

O.4000E-03(E) LOVISTMP= 252.1

243.1 LOTHROND= 0.1396 (E

```
252.1 LTCLOEND= 243.1
```

0.0000E+00(E) LHCUPBND= 252.1

INTFTMP=

AVP = 9.972

$$248.1 \text{ AVCP} = 0.5862E+05(E$$

50.0 VHCLOBND= 250.0

HTSOLUTN= 0.5850E+07

43.00 BURNRATE=

UPTOXLIM=

5.280 (E) FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
CYP  CHEMNAME = CYCLOPENTANE  PATHCODE = A  T  U  V  W
MOLEWT = 70.10  NBP = 322.5  NFP = 179.3  CRITTEMP= 511.8  CRITPRES= 0.4510E+07
DENSITY = 740.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1033.  BRHO = -1.000
CRHO = 0.0000E+00  LDUPRND= 313.1  LDLWRND= 273.1  LOVISPT= 0.4300E-03  LOVISTMP= 293.1
AVIS = -11.22  BVIS = 1020.  LVUPRND= 353.1  LVLWRND= 273.1  LQTHRCND= 0.1186
LTHCNTMP= 293.1  ACON = 0.2177  BCON = -0.3373E-03  LTCUPRND= 353.1  LTCLOBND= 273.1
LOHTCPPT= 1788.  LOHTCPTM= 293.1  AHC = 560.4  BHC = 4.187  LHCUPRND= 353.1
LHCLOBND= 273.1  SURFTENS= 0.2300E-01  SFTNIEMP= 293.1  INTFTENS= 0.2800E-01(E)  INTFTTMP= 293.1
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.492
BVP = 1447.  CVP = -0.1500  VPUPRND= 332.1  VPLWRND= 253.1  AVCP = -0.2152E+05
BVCP = 334.9  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPRND= 570.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3900E+06  HTCOMBTN= -0.4650E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  LOPOLYMR=  LOPFLMLIM= 1.100  (E)  UPFLMLIM= 8.700  (E)  BURNRATE= 0.1319E-03
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DAA  CHEMNAME = DIACETONE ALCOHOL
      MOLEWT = 116.2      NBP = 442.4      NFP = 230.4      CRITPRES= 0.2620E+07
      DENSITY = 938.0      DENSTEMP= 293.2      SHPSSTATE=L      ARHO = -1.0000
      CRHO = 0.0000E+00      LDUPREND= 373.2      LDLWREND= 273.2      LQVISPNT= 0.3200E-02      LQVISTMP= 293.2
      AVIS = -11.62      BVIS = 1721.      LVUPREND= 303.2      LVLWREND= 283.2      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPT= 2400.      (E) LQHTCPTM= 293.0      (E) AHC = 2400.      (E) BHC =      (E) LHCUPEND= 293.0      (E)
      LHCLOBND= 273.0      (E) SURFTENS=      SFTNIEMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.198
      BVP = 1531.      CVP = -77.16      VPUPREND= 473.2      VPLWREND= 283.2      AVCP = 0.1633E+05
      BVCP = 628.0      CVCP = -0.3852      DVCP = 0.9211E-04      VHCUPBND= 500.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3559E+06      HTCONSTN= -0.3030E+08(E)      HTDECOMP=      HTSOLUTN=
      HTPOLYMR=      LHTPOLYMR=      LOFLMLIM= 1.800      UPFLMLIM= 6.900      BURNRATE=
      TOXINHAL= 50.00      INHALCNC= 150.0      INHALTIME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DAC  CHEMNAME = DIMETHYLACETAMIDE          PATHCODE = A  P  O
MOLEWT = 87.10  NBP = 439.0  NFP = 253.0  CRITTEMP=
DENSITY = 943.0  DENSTEMP= 293.1  SHPSRATE=L  ARHO = 1206.  CRITPRES=
CRHO = 0.0000E+00  LDUPRBND= 373.1  LDWRBND= 273.1  LQVISPNT= 0.9200E-03  LQVISTMP= 298.1
AVIS = -10.77  BVIS = 1127.  LVUPRBND= 373.1  LVLARBND= 273.1  LQTHRCND= 0.1861
LTHCNTMP= 293.1  ACON = 0.4227  BCON = -0.8025E-03  LTCUPBND= 333.1  LTCLOBND= 273.1
LQHTCPPT= 2010.  LQHTCPTM= 293.1  AHC = 1365.  BHC = 2.177  LHCUPBND= 373.1
LHCLOBND= 273.1  SURFTENS= 0.3400E-01  SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.49
BVP = 2410.  CVP = -0.1500  VPUPRBND= 443.1  VPLWRBND= 323.1  AVCP = 0.2162E+05
BVCP = 293.5  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND= 200.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.4980E+06  HTCOMSTN= -0.2920E+08  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.500  HTDECOMP=  HTSOLUTN=
TOXINHAL= 10.00  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  BURNRATE= 0.4676E-04
LARETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  UPTOXLIM= 0.5000E-02
MOLFRAC =  FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DAI CHEMNAME = DODECYLBENZENESULFONIC ACID, ISOPROPYLAM- PATHCODE = SS

MOLECW	=	385.5	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY	=	1030.	DENSTEMP=	293.1	SHSTATE=S	=	ARHO	BRHO =
CRHO	=		LDUPREND=		LDLWBND=		LOVISPNT=	LOVISTMP=
AVIS	=		BVIS	=	LVUPREND=		LVLWBND=	LOTHRCND=
LTHCNTMP=			ACON	=	SCON	=	LTCUPBND=	LTCLOBND=
LQHTCPPT=			LQHTCPTM=		AHC	=	BHC	LHCUPEND=
LHCLOBND=			SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=			SOLUBTMP=		A	=	B	AVP =
BVP	=		CVP	=	VPUPREND=		VPLWBND=	AVCP =
BVCP	=		CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=
HTFUSION=			LHTVAPOR=		HTCONSTN=		HTDECCMP=	HTSOLUTN=
HTREACTN=			HTPOLYMR=		LOFLMLIM=		UPFLMLIN=	BURNRATE=
TOXINHAL=			INHALCNC=		INHALTME=		LOTOXLIN=	UPTOXLIM=
LAETOX	=		ABFLMTMP=		MOLRATIO=		AIRFUEL	FLMETEMP=
MOLFRAC	=							

0.5000E-02

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DAL  CHEMNAME = DECALDEHYDE      PATHCODE = A  T  U
MOLEWT = 145.3      NBP = 480.0      (E) NFP = 291.0      CRITTENP=
DENSITY = 830.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO = 1118.      BRHO = -1.0000
CRHO = 0.0000E+00      LDUPREND= 313.2      LDWRSND= 273.2      LOVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWREND=      LQTHRCND= 0.1500      (E)
LTHCNTMP= 310.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCURBND= 320.0      (E) LTCLOBND= 300.0      (E)
LQHTCPPT= 1900.      (E) LQHTCPTM= 300.0      (E) AHC = 1900.      (E) BHC = 0.0000E+00(E) LHCUPEND= 310.0      (E)
LHCLOBND= 295.0      (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 310.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 310.0      (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.884      (E)
BVP = 2337.      (E) CVP = 0.0000E+00(E) VPUPPSND= 400.0      (E) VPLWREND= 295.0      (E) AVCP = 0.2805E+05
BVCP = 795.5      CVCN = -0.2847      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4240E+08(E) HTDECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETENP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DAM		CHEMNAME = DIPHENYLAMINE		PATHCODE = II	
MOLECWT =	169.2	NBP =	575.0	NFP =	326.0
DENSITY =	1160	DENSTEMP =	293.1	SHRSTATE = S	
CRHO =		LDUPRBNB =		LDLWRBNB =	
AVIS =		BVIS =		LVUPRBNB =	
LTHCNTMP =		ACON =		BCON =	
LQHTCPPT =		LQHTCPTM =		AHC =	
LHCLOBND =		SURFTENS =		SFTNTEMP =	
SOLUBPNT =		SOLUBTMP =		A =	
BVP =		CVP =		VPUPRBNB =	
BVCP =		CVCP =		DVCP =	
HTFUSION =		LHTVAPOR =		HTCOMSTN =	-0.3790E+08
HTREACTN =		HTPOLYMR =		LOFLMLIM =	
TOXINHAL =	1.325	INHALCNC =		INHALTME =	
LATETOX =		ABFLNTMP =		MOLRATIO =	
MOLFRAC =					

CRITPRES =		CRITTEMP =	
BRHO =		ARHO =	
LOVISTMP =		LOVISPNT =	
LQTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPBND =		BHC =	
INTFTTMP =		INTFTENS =	
AVP =		B =	
AVCP =		VPLWRBND =	
VHCLOBND =		VHCUPBND =	
HTSOLUTN =		HTDECOMP =	
BURNRATE =		UPFLMLIM =	
UPTOX LIM =	0.5000E-02	LOTOX LIM =	0.5000E-03
FLMETEMP =		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DAN  CHEMNAME = N-DECYL ALCOHOL          PATHCODE = A  T  U
MOLEWT = 158.3      NBP      = 503.0      NFP      = 280.1      CRITTEMP= 700.0      CRITPRES= 0.2200E+07
DENSITY = 840.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1063.      BRHO      = -0.7600
CRHO      = 0.0000E+00      LDUPRBND= 373.2      LDLRBND= 283.2      LQVISPNT=      LOVISTMP=
AVIS      =      BVIS      =      LVUPRBND=      LVLWRBND=      LQTHRCND= 0.1500      (E)
LTHCNTMP= 283.0      (E) ACON      = 0.1500      (E) BCON      = 0.0000E+00(E) LTCUPBND= 310.0      (E) LTCLOBND= 283.0      (E)
LQHTCPPT= 2300.      (E) LQHTCPTM= 293.0      (E) AHC      = 2300.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 320.0      (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.1500E 01(E) SFTNTMP= 283.0      (E) INTFTENS= 0.6000E-01(E) INTFTTMP= 283.0      (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 8.895
BVP      = 1399.      CVP      = -143.2      VPUPRBND= 523 2      VPLWRBND= 293.2      AVCP      = 0.2219E+05
BVCP      = 887.6      CVCP      = -0.4689      DVCP      = 0.9630E-04      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3100E+06(E) HTCOVBSTN= -0.4170E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DAP  CHEMNAME = DI-N-AMYL PHTHALATE      PATHCODE = A  T  U
      MOLEWT = 306.0      NBP =          CRITTEMP=
      DENSITY = 820.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO =          CRITPRES=
      CRHO =              LDUPRBND=          LDWPRBND=          LVUPRBND=          BCON =          AHC =          SFTNTEMP= 293.1      INTFTENS=
      AVIS = -15.47      BVIS = 3556.          LVUPRBND= 363.1      BCON =          AHC =          SFTNTEMP= 293.1      INTFTENS=
      LTHCNTMP=          ACON =              LQHTCPTM=          SURFTENS= 0.3150E-01      SOLUBTMP= 293.1      CVP = -0.1500      CVCP =          LHTVAPOR=
      LQHTCPPT=          LQHTCPTM=          SURFTENS= 0.3150E-01      SOLUBTMP= 293.1      CVP = -0.1500      CVCP =          LHTVAPOR=
      LHCLOBND=          SURFTENS= 0.3150E-01      SOLUBTMP= 293.1      CVP = -0.1500      CVCP =          LHTVAPOR=
      SOLUBPNT= 0.1000E-01      SOLUBTMP= 293.1      CVP = -0.1500      CVCP =          LHTVAPOR=
      BVP = 4766.          CVP = -0.1500      CVCP =          LHTVAPOR=
      BVCP =          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      HTFUSION=          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      HTREACTN=          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      TOXINHAL=          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      LATETOX =          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      MOLFRAC =          LHTVAPOR=          HTPOLYMR=          INHALCNC=          ASFLMTMP=
      CRITPRES=          CRITTEMP=          SHPSTATE=L      ARHO =          CRITPRES=
      BRHO =          LOVISIMP= 293.1      LQTHRCND=          LTCLOBND=          LHCUPBND=          INTFTIMP=
      LOVISIMP= 293.1      LQTHRCND=          LTCLOBND=          LHCUPBND=          INTFTIMP=
      LQTHRCND=          LTCLOBND=          LHCUPBND=          INTFTIMP=
      AVP = 13.28          AVCP =          VHCLOBND=          HTSOLUTN=          BURNRATE=          UPTOXLIM=          FLMETEMP=
      VPLWRBND= 323.1          VHCUPBND=          HTDECOMP=          UPFLMLIM=          LOTOXLIM=          AIRFUEL =
      VHCUPBND=          HTDECOMP=          UPFLMLIM=          LOTOXLIM=          AIRFUEL =
      HTDECOMP=          UPFLMLIM=          LOTOXLIM=          AIRFUEL =
      UPFLMLIM=          LOTOXLIM=          AIRFUEL =
      LOTOXLIM=          AIRFUEL =
      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBA  CHEMNAME = DI-N-BUTYLAMINE
      MOLEWT = 129.2      NBP = 432.8      NFP = 211.0      CRITTEMP=
      DENSITY = 767.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1042.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E) LDUPRND= 298.1      LDLWRBND= 273.1      LQVISPT= 0.9000E-03      LQVISTMP= 293.1
      AVIS = -11.58      BVIS = 1339.      LVUPRND= 323.1      LVLWRBND= 273.1      LQTHRCND= 0.1512      (E)
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
      LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 1884.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
      LHCLOBND= 283.1      SURFTENS= 0.2476E-01      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT= 0.4700      SOLUBTMP= 293.1      A =      = 5      = 9.161
      BVP = 1499.      CVP = -72.10      VPUPRND= 443.1      VPLWRBND= 293.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.3030E+06      HTCOMSTN= -0.4368E+08      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      UPFLMLIM=      BURNRATE= 0.9753E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBC  CHEMNAME = DIISOBUTYL CARBINOL      PATHCODE = A T U
MOLECWT = 144.3      NBP = 451.0      NFP = 208.0      CRITTEMP=
DENSITY = 812.0      DENSTEMP= 293.2      SHPSTATE=L      CRHO = 1105.      BRHO = -1.0000
CRHO = 0.0000E+00      LDUPRND= 303.2      LDWRBND= 283.2      LQVISPNT= 0.1430E-01      LQVISTMP= 293.2
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND= 0.1700      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1700      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.0      (E) LTCLOBND= 273.0      (E)
LQHTCPPT= 2500.      (E) LQHTCPTM= 293.0      (E) AHC = 2500.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.0      (E)
LHCLOBND= 273.0      (E) SURFTENS= 0.4000E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.2000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT= 0.6000E-01      SOLUBTMP= 293.2      A =      B =      AVP = 10.35      (E)
BVP = 2411.      (E) CVP = 0.0000E+00(E) VPUPRND= 450.0      (E) VPLWRBND= 300.0      (E) AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3182E+06      HTCOMBNTN= -0.4050E+08(E) HTDECCMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.8000      UPFLMLIM= 6.100      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PATHCODE = A T U

MOLWCWT =	130.2	NBP	=	415.0	NFP	=	177.8	CRITTEMP=
DENSITY =	767.0	DENSTEMP=		293.1	SHSTATE=L			BRHO = -0.8800
CRHO =	0.0000E+00	LDUPREND=		313.1	DLWRBND=		233.1	LQVISTMP= 293.1
AVIS =	-11.35	BVIS	=	1190.	LVUPRSD=		353.1	LQTHRCND= 0.1151
LTHCNTMP=	293.1	ACON	=	0.1940	BCON	=	-0.2675E-03	LTCLOGBD= 253.1
LQHTCPPT=	2135.	LQHTCPTM=		293.1	AHC	=	1522.	LHCUFBND= 333.1
LHCLOBND=	233.1	SURFTENS=		0.2300E-01	SFTNTEMP=		293.1	INTFTTMS= 293.1
SOLUBPNT=	0.3000E-01	SOLUBTMP=		293.1	A	=	B	AVP = 10.24
BVP	=	2174.	CVP	=	-0.1500	VPUPRSD=	403.1	AVCP = 0.7214E+05
BVCP	=	435.4	CVCP	=	0.0000E+00	DVCP	=	573.0 VHCLOSND= 250.0
HTFUSION=			LHTVAPOR=	0.280CE+06	HTCOM'STN=	-0.4100E+08(E)	HTDECOMP=	HTSOLUTION=
HTREACTN=			HTPOLYMR=		LOFLMLIM=	1.500		BURNRATE= 0.9519E-04
TOXINHAL=			INHALLNC=		INHALLME=			UPTOXLIM= 0.1500E-01
LATETOX	=		ABFLMTMP=		MOLRATIO=			FLMETEMP=
MOLFRAC	=							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBK  CHENAME = DI-N-BUTYL KETONE      PATHCODE = A  T  U
MOLEWT = 142.0  NBP = 461.0  NFP = 267.0  CRITTEMP=
DENSITY = 822.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 845.9  CRITPRES=
CRHO = 0.0000E+00  LDUPRND= 313.1  LDWRBND= 273.1  LOVISRNT=  LOVISTMP=  BRHO = -0.8000E-01
AVIS =  LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1  LOTHRCND= 0.1512  (E)
LQHTCPT=  LQHTCPTM=  LQHTCPTM=  SHC =  LHCUPBND=
LHCLOBND=  SURFTENS= 0.2660E-01  SFTNIEMP= 294.2  INTFTTMS=  INTFTTMP=
SOLUBNT=  SOLUBTMP=  A =  B =  AVP = 9.171
BVP = 1920.  CVP = -0.1500  VPUPRND= 463.1  VPLWRND= 323.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.3000E+06(E) HTCONBTN= -0.3950E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLWLIM=  LOTOXLM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLM=  UPTOXLM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

```

DBL	CHEMNAME = DIISOBUTYLENE	PATHCODE = A T U V W							
	MOLECWt = 112.2	NBP =	374.7	NFP =	179.7	CRITTEMP=	559.9	CRITPRES=	0.2619E+07
	DENSITY = 715.0	DENSTEMP=	293.2	SHPSTATE=L		ARHO =	964.2	BRHO =	-0.8500
	CRHO = 0.0000E+00	LDPREND=	313.2	LDLWRBND=	283.2	LQVISPNT=		LQVIS TMP=	
	AVIS =	BVIS =		LVUPRSDN=		LVLWRBND=		LOTHRCND=	0.1500 (E)
	LTHCNTMP= 293.0	(E) ACON =	0.1500	(E) BCON =	0.0000E+00(E)	LTCUPEND=	298.0	(E) LTCLOBND=	273.0 (E)
	LQHTCPPT= 2000.	(E) LQHTCPTM=	293.0	(E) AHG =	2000.	(E) BHC =	0.0000E+00(E)	LHCUPBND=	298.0 (E)
	LHCLQBND= 273.0	(E) SURFTENS=	0.2070E-01	SFTNIEMP=	293.2	INTFTENS=	0.5000E-01(E)	INTFTTMP=	293.0 (E)
	SOLUBPNT=	SOLUBTMP=	A =	=	B =	=	AVP =	=	10.15
	BVP = 1903.	CVP =	0.4004E-01	VPUPRSND=	313.2	VPLWRBND=	263.2	AVCP =	-0.1376E+05(E)
	BVCP = 785.0	(E) CVCP =	-0.4750	(E) DVCP =	0.1100E-03(E)	VHCUPBND=	500.0	(E) VHCLQBND=	300.0 (E)
	HTFUSCN=	LHTVAFOR=	0.2512E+06	HTCOMBTN=	-0.4396E+08	HTDECOMP=		HTSOLUTN=	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	0.9000	UPFLMLIN=		BURNRATE=	0.1317E-03
	TOXINHAL=	INHLCNC=		INHALTME=		LOTOXLIM=		UPTOXLIM=	
	LATETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=	
	MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBO  CHEMNAME = O-DICHLOROBENZENE          PATHCODE = A  X  Y
MOLEWT = 147.0      NBP = 453.7      CRITTEMP=
DENSITY = 1306.      DENSTEMP= 293.2      SHPS:ATE=L      ARHO = 1599.      CRITPRES=
CRHO = 0.0000E+00    LDUPREND= 298.2      LDLWRBND= 288.2      LQVISPRNT= 0.7500E-03(E) LQVISTMP= 293.0 (E
AVIS = -11.70 (E)   BVIS = 1320. (E)   LVUPRSND= 293.0 (E)   LVLWRBND= 273.0 (E)   LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LOHTCPT= 1172.      LOHTCPTM= 293.2      AHC = 787.3      BHC = 1.256      LHCUPBND= 373.2
LHCLOSND= 273.2      SURFTENS= 0.3700E-01      SFTNTEMP= 293.2      INTFTERS= 0.4000E-01(E) INTFTTMP= 293.0 (E
SOLUBNT= 0.1500E-01      SOLUBTMP= 298.2      A =          VPUPRSND= 373.2      VPLWRBND= 273.2      AVCP = 9.870
BVP = 2246.      CVP = 0.4004E-01      DVCp = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
BVCP = 477.3      CVCP = -0.2721      HTCOMBNTN= -0.1853E+08      HTDECOMP=          HTSOLUTN=
HTFUSION=          LHTVAPOR= 0.2675E+06      LOFLMLIM= 2.200      UPFLMLIM= 9.200      BURNRATE= 0.2167E-04
HTREACTN=          HTPOLYMR=          INHALCNC= 50.00      INHALTME= 900.0      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
TOXINHAL= 50.00      ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
LARETOX =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBP  CHEMNAME = P-DICHLOROBENZENE          PATHCODE = II
      MOLEWT = 147.0      NBP = 447.4      NFP = 326.0
      DENSITY = 1458.      DENSTEMP= 293.2      SHPSSTATE=S
      CRHO =              LDUPRBD=              LDLWRBD=
      AVIS =              BVIS =              LVUPRBD=
      LTHCTMP=            ACON =              BCON =
      LQHTCPT=            LQHTCPTM=            AHC =
      LHCLOBND=            SURFTENS=            SFTNTMP=
      SOLUBPNT= 0.8000E-02      SOLUBTMP= 298.2      A =
      BVP =              CVP =              VPUPRBD=
      BVCP =              CVCP =              DVCP =
      HTFUSION=            LHTVAPOR=            HTCONSTN=
      HTREACTN=            HTPOLYMR=            LOFLMLIM=
      TOXINHAL= 75.00      INHALCNC=            INHALTME=
      LAETOX =            ABFLMTMP=            MOLRATIO=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LOTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE= 0.2167E-04(E)
      UPTOXLIM= 0.5000E-03
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DBR	CHEMNAME = DECABORANE	PATHCODE = II RR	
MOLECWT =	122.3	NBP =	486.0
DENSITY =	940.0	DENSTEMP =	298.1
CRHO =		LDUPREND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =	3799.	CVP =	-0.1500
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.5000E-01	INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	372.0
		SHESTATE = S	
		LDLWRBND =	
		LVUPRBND =	
		BCON =	
		AHC =	
		SFTNTEMP =	
		A =	
		VPUPRBND =	373.1
		DVCP =	
		HTCOW3TN =	-0.6671E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		R =	
		AVP =	13.61
		AVCP =	273.1
		VHCLOBND =	
		HTSOLUTN =	-0.6490E+06
		BURNRATE =	
		LOTOXLIM =	0.5000E-04
		AIRFUEL =	
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBS  CHEMNAME = DODECYLBENZENESULFONIC ACID, TRIETHANOLA-   PATHCODE = A  P
      MOLEWT = 475.6      NBP =      NFP =      CRITTEMP=
      DENSITY = 1200.      (E) DENSTEMP= 293.1      SHPSTATE=L      ARHO =
      CRHO =      LDUPRND=      BVIS =      LVUPRND=      LOVISPT=
      AVIS =      ACON =      LQHTCPTM=      SURFTENS=      SFTNTMP=      EHC =
      LTHCNTMP=      LQHTCLOBND=      SOLUBTMP=      CVP =      VPUPRND=      LTCLOBND=
      LHCLOBND=      BVP =      BVCP =      LHTVAPOR=      HTPOLYMR=      INHALCNC=      LTCLOBND=
      HTFUSION=      HTREACTN=      TOXINHAL=      ABFLMTMP=      MOLRATIO=      INTFTTMP=
      LAFETOX =      MOLFRAC =      CRITPRES=
      BURNRATE=
      UPTOXLIM=
      FLMETEMP=

```

112

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DBZ  CHEMNAME = N-DECYLBENZENE          PATHCODE = A  T  U
      MOLEWT = 218.0      NBP = 573.0      CRITPRES=
      DENSITY = 855.0      DENSTEMP= 293.1      CRITTEMP=
      CRHO = 0.0000E+00      LDUPRND= 303.1      SHPSIATE=L      ARHO = 875.1      BRHO = -0.7000E-01
      AVIS = -12.25      BVIS = 1956.      LVUPRND= 313.1      LDUPRND= 273.1      LOVISPNT= 0.3800E-02      LOVISTMP= 293.1
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LQTHRCND= 0.1512      (E)
      LQHTCPPT= 1424.      LQHTCPTM= 293.1      AHC = 1424.      BHC = 0.0000E+00      LTCLOBND= 278.1      LTCLOBND= 298.1
      LHCLBND= 278.1      SURFTENS= 0.2995E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VPUPRND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSIGN=      LHTVAPOR= 0.2413E+06      HTCONSTN= -0.4270E+08      HTSOLUTN=
      HTPOLYMR=      LOFLMLIM=      HTDECOMP=
      TOXINHAL=      INHALCNC=      INHALTME=      UPFLMLIM=      BURNRATE= 0.8417E-04
      LAETOX =      ABFLMTMP=      MOLRATIO=      LOTOXLIM=      UPTOXLIM=
      MOLFRAC =      FLMETEMP=
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DCA CHEMNAME = 2,4-DICHLOROPHENOXYACETIC ACID PATHCODE = II

MOLECWT =	221.0	NBP =		NFP =	314.0	CRITTEMP=	CRITPRES=
DENSITY =	1100.	(E) DENSTEMP=	293.1	SHPSTATE=S		ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWRBND=		LOVISBNT=	LOVISTMP=
AVIS =		BVIS =		LVUPREND=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPBND=	LTCLOBND=
LQHTCPT=		LQHTCPTM=		AHC =		BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=	0.7000E-01	SOLUBTMP=	298.1	A =		B =	AVP =
BVP =		CVP =		VPUPREND=		VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMPSTN=	-0.1800E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLWLIM=		UPFLWLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIN=	UPTOXLIN=
LATETOX =		ABFLMTMP=		MOLRATIO=			FLMETEMP=
MOLFRAC =							

0.5000E-04 0.5000E-03

***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS *****

```

DCB  CHEMNAME = DICHLOROBUTENE
      MOLEWT = 125.0      NBP = 429.0      PATHCODE = A X Y
      DENSITY = 1190.      DENSTEMP= 293.1      NFP = 225.0      (E) CRITTEMP=
      CRHO = 0.0000E+00(E) LDUPRND= 303.1      SHPSTATE=L      ΔRHO = 1483.      (E) BRHO = -1.000      (E)
      AVIS = -11.34      (E) BVIS = 1320.      (E) LVUPRND= 298.1      LDLWRND= 278.1      LQVISPNT= 0.1000E-02      LQVISTMP= 298.1
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPST D= 293.1      LTCLOBND= 283.1
      LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC = 447.4      (E) BHC = 4.187      (E) LHCUPBND= 303.1
      LHCLBND= 278.1      SURFTENS= 0.2400E-01(E)      SFTNIEMP= 293.1      INTFTES= 0.3000E-01(E)      INTFTIMP= 293.1
      SOLUBPNT= 0.2000      SOLUBTMP= 298.1      A = 10.31
      BVP = 2274.      CVP = -0.1500      VPUPRND= 429.1      VPLWRBND= 353.1      AVCP = 0.1591E+05(E)
      BVCP = 356.0      (E) CVCP = -0.2097      (E) DVCP = 0.4709E-04(E)      VHCUPBND= 500.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3100E+06(E)      HTCOYGTN= -0.1800E+08(E)      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.500      UPFLWLIM=      BURNRATE= 0.4342E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTCX LIM=      UPTOX LIM= 0.5000E-04
      LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DCE  CHEMNAME = 1-DECENE
      MOLEWT = 140.2      NBP = 443.8      PATHCODE = A T U
      DENSITY = 741.0     DENSTEMP= 293.2     SHPSTATE=L      CRITTEMP=
      CRHO = 0.0000E+00    LDUPRBD= 373.2     LVLWRBD= 273.2     LQVISPNT= 0.8000E-03  LOVISTMP= 293.2
      AVIS = -10.98       BVIS = 1121.      LVUPRBD= 373.2     LOTHRCND= 0.1500    LOTHRCND= 0.1500 (E)
      LTHCNTMP= 293.0     (E) ACON = 0.1500     (E) BCON = 0.0000E+00(E) LTCUPBD= 310.0 (E) LTCLOBND= 273.0 (E)
      LQHTCPPT=          LQHTCPPT=          AHC =          BHC =          LHCUPSND=
      LHCLOBND=          SURFTENS= 0.2300E-01(E) SFTNIEMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.59
      BVP = 2446.         CVP = 0.4004E-01    VPUPRBD= 393.2     VPLWRBD= 293.2     AVCp = 0.4187E+05
      BVCP = 607.1        CVCP = 0.0000E+00    DVCP = 0.0000E+00  VHCUPBD= 400.0     VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.2759E+06    HTCOWBTN= -0.4444E+08  HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLWLIM=          BURNRATE= 0.1000E-03
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLWTEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DCF CHEMNAME = DICHLORODIFLUOROMETHANE

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DCM  CHEMNAME = DICHLOROMETHANE          PATHCODE = A  P  X
MOLEWT = 84.93      NBP = 313.0      NFP = 176.5      CRITTEMP= 518.0      CRITPRES= 0.617GE+07
DENSITY = 1322.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1853.      BRHO = -1.800
CRHO = 0.0000E+00      LOUPREND= 323.2      LDLRBND= 213.2      LOVISINT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LQTHRCND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=      LTCLOBND=
LQHTCPT= 1172.      LQHTCPTM= 293.2      AHC = 804.1      BHC = 1.256      LHCUPBND= 333.2
LHCLOBND= 273.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT= 1.380      SOLUBTMP= 293.2      A =      B =      AVP = 9.940
BVP = 1540.      CVP = 0.4004E-01      VPUPRBND= 303.2      VPLWRBND= 248.2      AVCP = -0.1059E+05
BVCP = 284.7      CVCP = -0.2639      DVCP = 0.0000E+00      VHCUPBND= 420.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3295E+06      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 12.00      UPFLMLIM= 19.00      BURNRATE=
TOXINHAL= 500.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DCP  CHEMNAME = 2,4-DICHLOROPHENOL          PATHCODE = II
MOLEWT = 163.0      NBP = 489.0      NFP = 318.0      CRITPRES=
DENSITY = 1400.     DENSTEMP= 288.2      SHPSTATE=S      ARHO =
CRHO =             LDUPREND=             LDWRBND=      LOVISIMP=
AVIS =             BVIS =             LVUPREND=      LOTHRCND=
LTHCNTMP=          ACON =             BCON =          LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =          LHCUPEND=
LHCLOBND=          SURFTENS=          SFTNTMP=      INTFTIMP=
SOLUBPNT= 0.4600   SOLUBTMP= 293.2      A =          AVP =
BVP =             CVP =             VPUPREND=      AVCP =
BVCP =            CVCP =             DVCP =          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=      UPTOXLIM= 0.5000E-03
LATETOX =          ABFLNTMP=          MOLRATIO=      AIRFUEL =
MOLFRAC =
*****

```

DCS	CHEMNAME =	DODECYLBENZENESULFONIC ACID.CALCIUM SALT	PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITPRES =
DENSITY =	DENSTEMP =	298.1	SHPSTATE=L
CRHO =	LDUPREND=		ARHO =
AVIS =	BVIS =		LOVISPT=
LTHCNTMP=	ACON =		LVLRBND=
LQHTCPT=	LQHTCPTM=	AHC =	LTCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTEMP=
SOLUBNT=	SOLUBTMP=	A =	B =
BVP =	CVP =	VPUPBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=
HTFUSION=	LHTVAPOR=	HTCOBNTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE =
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LARETOX =	ABFLWMTMP=	MOLRATIO=	AIRFUEL =
MOLFRAC =			

0.6680E-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DOB  CHEMNAME = DODECYLBENZENE          PATHCODE = A   T   U
MOLEWT = 240.0  NBP = 561.0  CRITPRES=
DENSITY = 860.0  DENSTEMP= 293.1  BRHO = -0.7000
CRHO = 0.0000E+00  LDUPRND= 303.1  LOVISTMP= 293.1
AVIS = -13.12  BVIS = 2335.  LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1  ACON = 0.1512 (E)  LTCLOBND= 283.1
LQHTCPPT= 1884. (E)  LQHTCPTM= 293.1  LHCUPBND= 303.1
LHCLOBND= 283.1  SURFTENS= 0.3010E-01  INTFTTMP= 293.1
SOLUBPNT=  SOLUSTMP=  A =  B =  AVP = 8.421
BVP = 2320.  CVP = -0.1500  VPUPRND= 313.1  AVCP = 0.5631E+05
BVCP = 1013.  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3400E+06  HTCOWSTN= -0.4180E+08  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE= 0.6179E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =  ABFLTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DDC  CHEMNAME = 1-DODECENE
      MOLEWT = 168.3      NBP = 486.0      PATHCODE = A T U
      DENSITY = 758.0      DENSTEMP= 293.2      SHPS:ATE=L      CRITTEMP=
      CRHO = 0.0000E+00      LDUPRBND= 373.2      LDLWRBND= 273.2      LQVISPNT= 0.1300E-02      LQVISTMP= 293.2      CRITPRES=
      AVIS = -11.33      BVIS = 1374.      LVUPRBND= 373.2      LVLWRBND= 273.2      LQTHRCND= 0.1500      LQTHRCND= 0.1500      BRHO = -0.7300
      LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E)      LTCUPBND= 303.0      (E) LTCLOBND= 273.0      (E)
      LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E)      LHCUPBND= 303.0      (E)
      LHCLOBND= 273.0      (E) SURFTENS= 0.2400E-01      SFTNTMP= 293.2      INTFTENS= 0.4000E-01(E)      INTFTTMP= 293.0      (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.81
      BVP = 2783.      CVP = 0.4004E-01      VPUPRBND= 423.2      VPLWRBND= 293.2      AVCP = 0.2106E+05
      BVCP = 932.4      CVCP = -0.3308      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.2554E+06      HTCOMSTN= -0.4399E+08      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.9667E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOX LIM=
      LAETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =

```

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

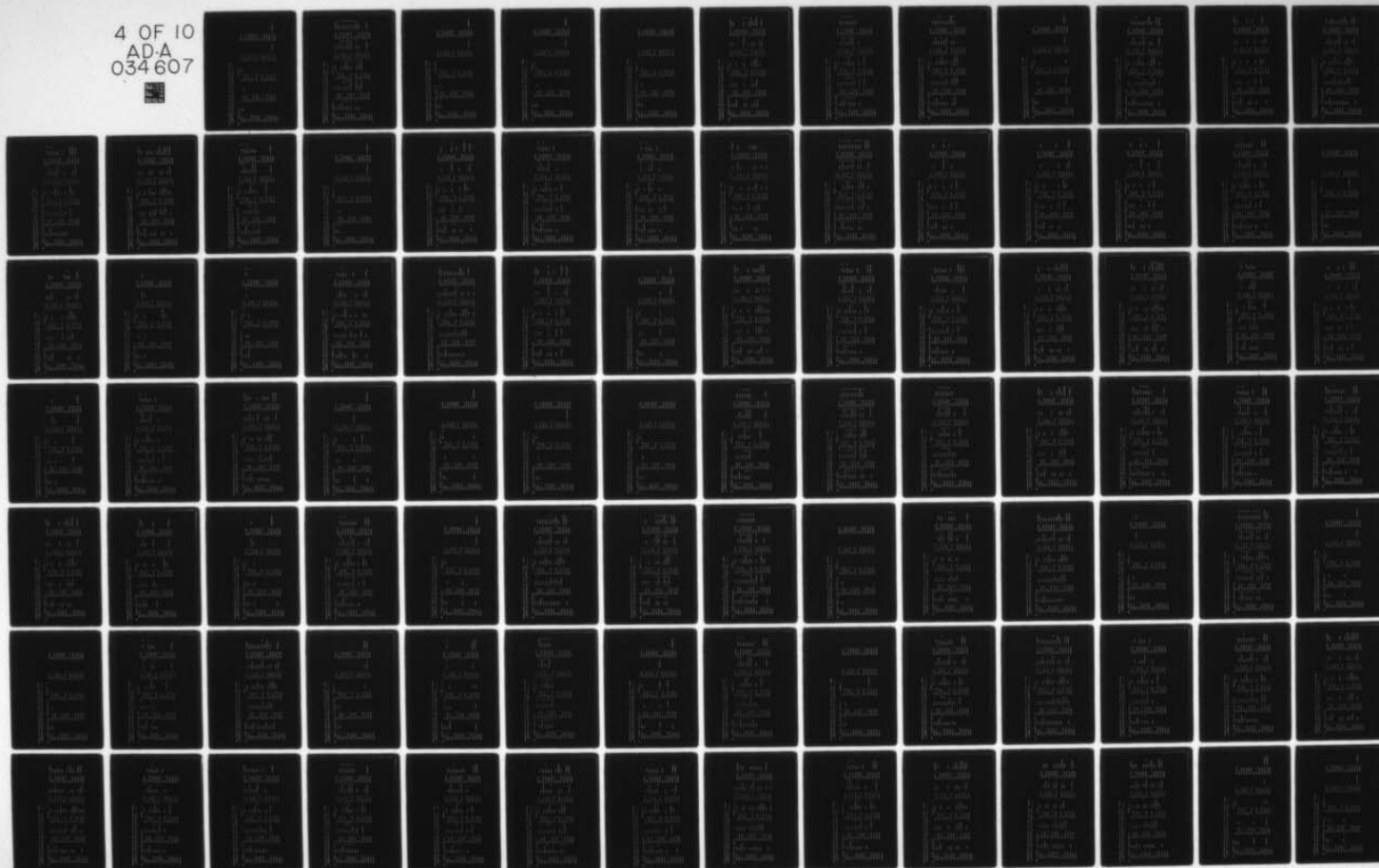
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

4 OF 10
ADA
034607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DDD CHEMNAME = DDD PATHCODE = II
MOLEWT = 320.0 NFP = 385.0 CRITPRES=
DENSITY = 1476. DENSTEMP= 293.1 SHPSTATE=S CRITTEVP=
CRHO = LDUPREND= BVIS = ACON = LQHTCPTM= SURFTENS= SOLUBTMP= BVP = BVCP = HTFUSION= HTREACTN= TOXINHAL= LAFETOX = MOLFRAC =
AVIS = LTHCNTMP= LHCLOBND= SOLUBPNT= BVP = BVCP = HTFUSION= HTREACTN= TOXINHAL= LAFETOX = MOLFRAC =
LDLWRBND= LVUPRBNB= BCON = AHC = SFTNTEMP= A = VPUPRBNB= DVCP = LHTVAPOR= HTPOLYMR= INHALCNC= ABFLMTMP=
LQVISTMP= LQTHRCND= LTCLOBND= LHCUPBND= INTFTTMP= AVP = AVCP = VHCLOBND= HTSOLUTN= BURNRATE=
LQVISPNT= LVLWRBND= LTCUPBND= BHC = INTFTENS= B = VPLWRBND= VHCUPBND= HTDECOMP= UPFLMLIM= LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
AIRFUEL =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DDN  CHEMNAME = DODECANOL          PATHCODE = A   T   U
MOLEWT = 186.3      NBP = 532.0      CRITTEMP= 679.0      CRITPRES= 0.1900E+07
DENSITY = 831.0      DENSTEMP= 297.2      SHPSTATE=L      ARHO = 636.9      BRHO = -0.7800
CRHO = 0.0000E+00      LDUPRND= 373.2      LDWRBND= 297.2      LQVISPT= 0.1550E-02(E) LQVISTMP= 303.0 (E)
AVIS = -13.40 (E) BVIS = 2100. (E) LVUPRND= 323.0 (E) LVLWRBND= 303.0 (E) LOTHRCND= 0.1600 (E)
LTHCNTMP= 303.0 (E) ACON = 0.1600 (E) BCON = 0.0000E+00(E) LTCUPBND= 323.0 (E) LTCLOBND= 303.0 (E)
LQHTCPPT= 2030. (E) LQHTCPTM= 303.0 (E) AHC = 2030. (E) BHC = 0.0000E+00(E) LHCUPEND= 323.0 (E)
LHCLOBND= 303.0 (E) SURFTENS= 0.1500E-01(E) SFTNTMP= 303.0 (E) INTFTENS= 0.3000E-01(E) INTFTTMP= 303.0 (E)
SOLUBPNT=          SOLUSTMP=          A =          B =          AVP = 10.91 (E)
BVP = 3142. (E) CVP = 0.0000E+00(E) VPUPRND= 560.0 (E) VPLWRBND= 350.0 (E) AVCP = 0.3291E+05
BVCP = 967.1      CVCP = -0.3098      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSICN=          LHTVAPOR= 0.2600E+06(E) HTCOW3TN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DDS CHEMNAME = DODECYL SULFATE, SODIUM SALT PATHCODE = SS

MOLEWT = 288.0	NBP =	NFP =	CRITPRES=
DENSITY = 1100. (E)	DENSTEMP= 293.1	SHSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPTP=	LOHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVF =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-02
LATEETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DDT CHEMNAME = DDT

PATHCODE = II

MOLECWT = 354.5	NBP =	NFP = 381.0	CRITTEMP=	CRITPRES=
DENSITY = 1560.	DENSTEMP= 288.2	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWPSND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRSND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VPUPRSND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLNLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIN=	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

DEB CHEMNAME = DIETHYLBENZENE

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEC  CHEMNAME = DIETHYL CARBONATE      PATHCODE = A  T  U
MOLEWT = 118.1      NBP = 400.0      NFP = 230.0      CRITTEVP=
DENSITY = 975.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1268.
CRHO = 0.0000E+00      LDUPRND= 313.2      LDWRBND= 273.2      LQVISPT= 0.8680E-03      LQVISTMP= 288.2
AVIS = -11.46      BVIS = 1270.      LVUPRND= 313.2      LVLWRBND= 283.2      LQTHRCND= 0.1800 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1800 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.0 (E) LTCLOBND= 278.0 (E)
LQHTCPPT= 1938.      LQHTCPTM= 293.2      AHC = 1325.      BHC = 2.093      LHCUPBND= 373.2
LHCLOBND= 273.2      SURFTENS= 0.2630E-01      SFTNTMP= 293.2      INTFTENS= 0.1286E-01      INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.43
BVP = 2170.      CVP = 0.4004E-01      VPUPRND= 403.2      VPLWRBND= 288.2      AVCP = 0.8400E+05(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 400.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.3056E+06      HTCOMBTN= -0.2180E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DED CHEMNAME = DIELDRIN

PATHCODE = II

MOLEWT = 380.9	NBP =	NFP = 449.0	CRITPRES=
DENSITY = 1750.	DENSTEMP= 293.1	SHPSTATE=S	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCOW3TN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.1470E-01	INHALCNC= 0.5880E-01	INHALTME= 1800.	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEE  CHEMNAME = DICHLOROETHYL ETHER
      PATHCODE = A P Q X Y
      MOLECW = 143.0 NBP = 451.0 NFP = 221.0 CRITTEMP=
      DENSITY = 1220. DENSTEMP= 293.1 SHPSSTATE=L ARHO =
      CRHO = 0.0000E+00 LDUPREND= 353.1 LDLRBND= 273.1 LOVISPAT= 0.3000E-02 BRHO = -1.140
      AVIS = -10.18 (E) BVIS = 1260. (E) LVUPR3ND= 298.1 LVLWRBND= 278.1 LQTHRCND= 0.1047 (E)
      LTHCNTMP= 293.1 ACON = 0.1047 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1 LTCLOBND= 278.1
      LQHTCPPT= 1591. LQHTCPTM= 293.1 AHC = 363.6 (E) BHC = 4.187 (E) LHCUPBND= 298.1
      LHCLOBND= 278.1 SURFTENS= 0.3750E-01 SFTNTMP= 292.1 INTFTENS= 0.4000E-01(E) INTFTTMP= 293.1
      SOLUBPNT= 1.070 SOLUBTMP= 293.1 A = E = 11.22
      BVP = 2802. CVP = -0.1500 VPUPR3ND= 453.1 VPLWRBND= 283.1 AVCP = 0.3136E+05(E)
      BVCP = 366.2 (E) CVCP = -0.2248 (E) DVCP = 0.3321E-04(E) VHCUPBND= 500.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.3330E+06 HTCON3TN= -0.1750E+08(E) HTDECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE= 0.4008E-04
      TOXINHAL= 5.000 INHALCNC= 35.00 INHALTME= 1800. LOTOXLIM= 0.5000E-04 UPTOXLIM= 0.5000E-03
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC = FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DEG  CHEMNAME = DIETHYLENE GLYCOL      PATHCODE = A  P  Q
MOLEWT = 106.1      NBP = 518.0      NFP = 265.0      CRITTEMP= 681.0      CRITPRES= 0.4700E+07
DENSITY = 1118.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1426.      BRHO = -1.050
CRHO = 0.0000E+00      LDUPREND= 373.2      LDLRBND= 273.2      LQVISP:T=      LOVISTWP=
AVIS =      BVIS =      LVUPRND=      LVLWRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2307.      LQHTCPTM= 293.2      AHC = 1075.      EHC = 4.187      LHCUPBND= 373.2
LHCLOBND= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 12.80
BVP = 3940.      CVP = 0.4004E-01      VPUPRND= 473.2      VPLWRND= 293.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.6280E+06      HTCOMBNTN= -0.2237E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= .600      UPFLMLIM= 10.80      BURNRATE= 0.2500E-04
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DEL	CHEMNAME = 1,2-DICHLOROETHYLENE	PATHCODE = A X Y					
	MOLECWt = 97.00	NBP = 333.0	(E) NFP = 192.0	(E) CRITTEMP=	CRITPRES=		
	DENSITY = 1270.	DENSTEMP= 298.1	SHPSTATE=L	ARHC = 1628.	BRHO = -1.200		
	CRHO = 0.0000E+00	LDPREND= 333.1	LDLWRBND= 273.1	LQVISPT= 0.4200E-03	LQVISTMP= 293.1		
	AVIS = -10.30	BVIS = 738.0	LVUPREND= 373.1	LVLWRBND= 273.1	LQTHRCND= 0.9653E-01		
	LTHCNTMP= 293.1	ACON = 0.4539E-01	BCON = 0.1744E-03	LTCUPBND= 333.1	LTCLOBND= 273.1		
	LQHTCPTT= 879.2	LQHTCPTM= 293.1	AHC = -111.0	BHC = 3.349	LHCUPBND= 333.1		
	LHCLQBND= 273.1	SURETENS= 0.2400E-01	SFTNTIMP= 293.1	INTFTEIS= 0.3000E-01(E)	INTFTTMP= 293.1		
	SOLUBPNT= 0.6300	SOLUBTMP= 293.1	A =	B =	AVP = 9.776		
	BVP = 1560.	CVP = -0.1500	VPUPRSND= 333.1	VPLWRBND= 283.1	AVCP = 0.3366E+05		
	BVCP = 106.8	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND= 500.0	VHCLQBND= 250.0		
	HTFUSION=	LHTVAPOR= 0.3000E+06	HTCONSTN= -0.1127E+08	HTDECOMP=	HTSOLUTN=		
	HTREACTN=	HTPOLYMR=	LOFLMLIM= 9.700	UPEFLMLIN= 12.80	BURNRATE= 0.4342E-04		
	TOXINHAL= 200.0	INHALLCNC=	INHALTIME=	LOTOXLIN= 0.5000E-03	UPTOXLIM= 0.5000E-02		
	LARETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DEM    CHEMNAME = DIETHYLENE GLYCOL MONOBUTYL ETHER ACETA-   PATHCODE = A   P   Q
MOLEWT = 204.3      NBP = 519.0      NFP = 240.0      CRITTEMP=
DENSITY = 985.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1278.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWREND= 273.1      LQVISEPT= 0.2600E-02      LOVISTMP= 293.1
AVIS = -12.79      (E) BVIS = 2100.      (E) LVUPREND= 303.1      LVLWREND= 278.1      LOTHRAND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPEND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1675.      (E) LQHTCPTN= 293.1      AHC = 1675.      (E) EMC = 0.0000E+00(E) LMCUPBND= 298.1
LHCLGBND= 283.1      SURFTENS= 0.2200E-01(E) SFTNTEMP= 293.1      INTFTENS=
SOLUBPNT= 6.500      SOLUBTMP= 293.1      A = 293.1      B = 11.92
BVP = 3588.      CVP = -0.1500      VPUPREND= 523.1      VALWREND= 403.1      AVCP =
BVCP = 3588.      CVCP = 3588.      DVCP = 3588.      VMCUPBND=
HTFUSION= 0.2500E+06      HTCOMSTN= -0.3100E+08(E) HTDECOMP=
HTREACTN= 0.2500E+06      LOPFLVIM= 0.8000      UPFLVIM= 5.000      HTSOLUTN= -0.6300E+05(E)
TOXINHAL= 0.2500E+06      INHALCNC= 0.2500E+06      LOTOXLIN= 0.1500E-01      BURNRATE= 0.6346E-04
LATETOX = 0.2500E+06      ABFLMTMP= 0.2500E+06      INHALTIME= 0.2500E+06      UPTOXLIN= 0.1500E-01
MOLFRAC = 0.2500E+06      MOLRATIO= 0.2500E+06      AIRFUEL = 0.2500E+06      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DEN  CHEMNAME = DIETHYLAMINE      PATHCODE = A  P  O  R  S
MOLECWT = 73.14      NBP      = 328.7      CRITTEMP= 496.7      CRITPRES= 0.3710E+07
DENSITY = 708.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1009.      BRHO      = -1.030
CRHO      = 0.0000E+00      LDUPRBND= 323.2      LDWRBND= 273.2      LOVISPRAT=      LOVISTMP=
AVIS      =      BVIS      =      LVUPRBND=      LVLWRBND=      LQTHRCND= 0.1233
LTHCNTMP= 293.2      ACON      = 0.2458      BCON      = -0.4187E-03      LTCUPBND= 333.2      LTCLOBND= 273.2
LQHTCPPT= 2512.      LQHTCPTM= 293.2      AHC      = 1369.      SHC      =      LHCUPBND= 353.2
LHCLOBND= 263.2      SURFTENS= 0.2005E-01      SFTNTEMP= 293.2      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      E      =      AVP      = 9.904
BVP      = 1610.      CVP      = 0.4004E-01      VPUPRBND= 323.2      VPLWRBND= 273.2      AVCP      = 0.1524E+05
BVCP      = 367.2      CVCP      = -0.1005      DVCP      = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3894E+06      HTCOMBSTN= -0.4184E+08      HTDECOMP=      HTSOLUTN= -0.4689E+06
HTREACTN=      HTPOLYMR=      LOFLMLIN= 1.800      UPFLMLIN= 10.10      BURNRATE= 0.1117E-03
TOXINHAL= 25.00      INHALCNC= 100.0      INHALTME= 1800.      COTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =      FLWETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DEP  CHEMNAME = DI-(2-ETHYLHEXYL) PHOSPHORIC ACID      PATHCODE = A  T  U
      MOLEWT = 322.4      NBP =      DENSTEMP= 293.1      CRITPRES=
      DENSITY = 977.0      CRITTEMP=
      CRHO = 0.0000E+00(E) LDUPREND= 303.1      ARHO = 1270.      (E) BRHO = -1.000      (E)
      AVIS = -30.24      (E) BVIS = 8000.      (E) LVUPREND= 303.1      LVLWRBND= 283.1      LOVISTMP= 293.1
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LOTHRCND= 0.1512      (E)
      LHCTCPPT= 1758.      (E) LHCTCPTM= 293.1      AHC = 1758.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
      LHCLOBND= 283.1      SURFTENS= 0.2000E-01(E) SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E) INTFTTMP= 293.1
      SOLUBPNT= 0.1000E-01(E) SOLUBTMP= 293.1      A =      B =      AVP =
      BVP =      CVP =      VPUPREND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSIGN=      LHTVAPOR=      HTCOWBTDN= -0.3100E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PATHCODE = A X Y

[illegible]

0.6170E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DET  CHERNAME = DIETHYLENETRIAMINE          PATHCODE = A  P  Q
      MOLEWT = 103.2      NBP = 480.0      CRITTEMP=
      DENSITY = 954.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1247.      CRITPRES=
      CRHO = 0.0000E+00      LDUPRND= 303.2      LDLWRND= 283.2      LQVISPT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRND=      LVLWRND=      LOTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 2200.      (E) LQHTCPTM= 293.0      (E) AHC = 2200.      (E) BHC =      LHCUPBND= 298.0      (E
      LHCLOBND= 273.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.20
      BVP = 2494.      CVP = 0.4004E-01      VPUPRND= 473.2      VPLWRBND= 283.2      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOWSTN= -0.3090E+08(E)      HTDECOMP=      HTSOLUTN= -0.3000E+05(E
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      UPFLMLIM= 10.00      BURNRATE=
      TOXINHAL= 1.000      INHALCNC=      INHALTME=      MOTCXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DEZ CHEMNAME = DIETHYLZINC

PATHCODE = A O Z

MOLECWT = 123.5	NBP = 397.0	NFP = 245.0	CRITTEMP =	CRITPRES =	
DENSITY = 1207.	DENSTEMP = 293.1	SHPSTATE=L	APHO =	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPREND = 298.1	LDLWPSND = 278.1	LQVISPNT =	0.6950E+03	LQVISTMP = 293.1
AVIS = -11.78 (E)	BVIS = 1320.	(E) LVUPR9ND = 298.1	LVLWREND =	278.1	LQTHRCND = 0.1628 (E)
LTHCNTMP = 293.1	ACON = 0.1628	(E) BCON = 0.0000E+00(E)	LTCUPBID =	298.1	LTCLO8ND = 278.1
LQHTCPPT = 1675.	(E) LQHTCPTM = 293.1	AHC = 1675.	(E) EHC =	0.0000E+00(E)	LHCUPSND = 298.1
LHCLO8ND = 278.1	SURFTENS = 0.2000E-01(E)	SFTNTEMP = 293.1	INTFTENS =		INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	9.823
BVP = 1910.	CVP = -0.1500	VPUPR9ND = 373.1	VPLWRBID =	283.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBID =		VHCLO8ND =
HTFUSION =	LHTVAPOR = 0.2800E+06	HTCOMSTN = -0.2720E+08	HTDECOVE =		HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =		BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =		UPTOXLIM =
LAETETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =		FLMETEMP =
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DFA  CHEMNAME = DIFLUOROPHOSPHORIC ACID, ANHYDROUS      PATHCODE = A  0
MOLECWT = 103.0      NBP = 389.0      NFP = 178.0      CRITPRES=
DENSITY = 1583.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 1873.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWPSND= 273.1      LQVISPT=      LQVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND= 0.1744      (E)
LTHCNTMP= 293.1      ACON = 0.1744      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 2093.      (E) LQHTCPTM= 293.1      AHC = 2093.      (E) BHC = 0.0000E+00(E) LHCUPEND= 298.1
LHCLOBND= 283.1      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.457
BVP = 1732.      CVP = -0.1500      VPUPRSND= 393.1      VPLWRBND= 323.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3200E+06      HTCONSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM=      UPFLWLM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LATETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DFE  CHEMNAME = 1,1-DIFLUOROETHANE      PATHCODE = A  B  C  D  E  F  G
MOLECWT = 66.05      NBP = 248.5      NFP = 156.0      CRITTEMP= 386.6      CRITPRES= 0.4500E+07
DENSITY = 950.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO =      BRHO =
CRHO =      LDUPRND=      BVIS = 583.0      LVUPRND= 298.1      LVLWRND= 248.1      LQTHRCND=
AVIS = -10.30      ACON =      LQHTCPTM=      SURFTENS= 0.1125E-01      SFTNTEMP= 293.1      INTFTEMP=
LTHCNTMP=      LQHTCPPT=      LHCLOBND=      SOLUBPNT=      SOLUTMP=      A =      B =      AVP = 9.634
BVP = 1150.      CVP = -0.1500      VPUPRND= 303.1      VPLWRND= 248.1      AVCP = 8675.
BVCP = 239.6      CVCP = -0.1457      DVCP = 0.3394E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3265E+06      HTCOM9TN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.700      UPFLMLIN= 18.00      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO= 0.7000      (E) AIRFUEL = 5.196      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DFF  CHEMNAME = DISTILLATE: FLASHED FEED STOCKS      PATHCODE = A  T  U  V  W
      MOLEWT =      NBP      = 347.5 (E) NFP      =      CRITEMP=
      DENSITY = 710.0 (E) DENSTEMP= 288.2      SHPSTATE=L      ARHO      =
      CRHO      = 0.0000E+00(E) LDUPREND= 353.0 (E) LDLWRBND= 273.0 (E) LOVISPT= 458.3 (E) BRHO      = -0.9000 (E)
      AVIS      = -11.00 (E) BVIS      = 943.0 (E) LVUPBND= 353.0 (E) LVLWRBND= 273.0 (E) LQTHRCND= 0.1250 (E)
      LTHCNTMP= 293.0 (E) ACON      = 0.1930 (E) BCON      = -0.2300E-03(E) LTCUPBND= 333.0 (E) LTCLOBND= 283.0 (E)
      LQHTCPPT= 2181. (E) LOHTCPTM= 293.0 (E) AHC      = 1250. (E) BHC      = 3.180 (E) LHCUPEND= 303.0 (E)
      LHCLOBND= 273.0 (E) SURFTENS= 0.2100E-01(E) SFTNTEMP= 293.2      INTFTENS= 0.5000E-01(E) INTFTMP= 293.2
      SOLUBPNT=      SOLUBTMP=      A      =      B      =
      BVP      = 1268. (E) CVP      = -56.10 (E) VPUPBND= 403.0 (E) VPLWRBND= 253.0 (E) AVCP      = -2973. (E)
      BVCP      = 646.9 (E) CVCP      = -0.2680 (E) DVCP      = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBND= 250.0 (E)
      HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCOM/3TN= -0.4354E+08      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6667E-04(E)
      TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOX LIM= 0.5000E-03      UPTOX LIM= 0.5000E-02
      LAIETOX =      ABFLWTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DGD  CHEMNAME = DIETHYLENE GLYCOL DIMETHYL ETHER      PATHCODE = A  P  Q
MOLEWT = 134.2      NBP = 435.0      CRITTEMP=
DENSITY = 945.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1238.
CRHO = 0.0000E+00      LDUPRND= 303.2      LDLWRND= 283.2      LQVISPT=
AVIS =
LTHCNTMP=
LQHTCPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPEND= 298.0      (E)
LHCLOBND= 273.0      (E) SURFTENS=
SOLUBPNT=
BVP = 2320.      CVP = 0.4004E-01      VPUPRND= 433.2      VPLWRND= 293.2
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LAFETOX =
MOLFRAC =

LHTVAPOR= 0.3098E+06      HTCCNSTN= -0.2620E+08(E) HTDECOMP=
HTPOLYMR=
INHALCNC=
ABFLMTMP=
LOFLWLM=
INHALTME=
MOLRATIO=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =
CRITPRES=
BRHO = -1.0000
LQVISPT=
LQTHRCND=
LTCLOBND=
LHCUPEND= 298.0      (E)
INTFTTMP=
AVP = 10.34
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DGE  CHEMNAME = DIETHYLENE GLYCOL MONOETHYL ETHER      PATHCODE = A  P  Q
MOLECW = 134.2      NBP = 475.0      NFP = 197.0      CRITTEMP =
DENSITY = 990.0      DENSTEMP = 293.2      SHPSSTATE=L      ARHO = 1283.
CRHO = 0.0000E+00      LDUPREND = 303.2      LDLWRBND = 283.2      LOVISPNT =
AVIS =      BVIS =      LVUPREND =      LVLWRBND =
LTHCNTMP =      ACON =      LOHTCPTM = 293.2      AHC =      BHC =
LOHTCPPT = 1926.      SURFTENS =      SFTNTMP =      INTFTENS =
LHCLOBND =      SOLUBPNT =      SOLUBTMP =      A =      B =
BVP = 2970.      CVP = 0.4004E-01      VPUPREND = 473.2      VPLWRBND =
BVCP =      CVCP =      DVCP =      VHCUPBND =
HTFUSION =      LHTVAFOR = 0.3559E+06      HTCOV3TN = -0.2700E+08(E) HTDECOMP =
HTREACTN =      HTPOLYMR =      LOFLMLIM = 1.200      UPFLMLIM =
TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-03
LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =
MOLFRAC =
CRITPRES =
BRHO = -1.0000
LOVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP = 11.25
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-02
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DGM  CHEMNAME = DIETHYLENE GLYCOL MONOMETHYL ETHER      PATHCODE = A  P  Q
MOLEWT = 120.2      NBP = 467.0      NFP = 188.0      CRITEMP=
DENSITY = 1025.      DENSTEMP= 293.2      SHPSIATE=L      ARHO = 1318.      CRITPRES=
CRHO = 0.0000E+00      LDUPRBD= 303.2      LDLWRSD= 283.2      LQVISPT=      LQVISIMP=
AVIS =      BVIS =      LVUPRSD=      LVLWRBD=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBD=      LTCLOBND=
LQHTCPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) EHC = 0.0000E+00(E) LHCUPBD= 298.0      (E)
LHCLOBND= 273.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTIMP=
SOLUBPNT=      SLUBTMP=      A =      B =      AVP = 11.04
BVP = 2820.      CVP = 0.4004E-01      VPUPRBD= 473.2      VPLWRBD= 283.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBD=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3768E+06      HTCOMSTN= -0.2600E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALIME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LARETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DHN  CHEMNAME = DECAHYDRONAPHTHALENE      PATHCODE = A  T  U
MOLEWT = 138.2      NBP = 458.0      NFP = 231.0      CRITTEMP=
DENSITY = 890.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1125.      CRITPRES=
CRHO = 0.0000E+00      LOUPRBND= 303.1      LDLWRBND= 283.1      LQVISNT= 0.1830E-02      LQVISTMP= 293.1
AVIS = -11.76      (E) BVIS = 1600.      (E) LVUPRBND= 303.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1591.      LQHTCPTM= 288.1      AHC = 384.6      (E) EHC = 4.187      (E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.3000E-01      SFTNTMP= 293.1      INTFTENS= 0.3500E-01(E)      INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.843
BVP = 2264.      CVP = -0.1500      VPUPRBND= 473.1      VPLWRBND= 323.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3000E+06      HTCOMBNTN= -0.4470E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 0.7000      UPFLWLIM= 5.400      BURNRATE= 0.9853E-04
TOXINHAL= 25.00      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DHP  CHEMNAME = DIHEPTYL PHTHALATE      PATHCODE = A  T  U  X  Y
MOLECW = 362.0      NBP =                CRITTEMP=
DENSITY = 1000.      (E) DENSTEMP= 293.1  SHPSTATE=L  BRHO =
CRHO =              LDUPRND=              LOVISTMP=
AVIS =              BVIS =                LQTHRCND=
LTHCNTMP=           ACON =                LTCLOEND=
LQHTCPPT=           LQHTCPTM=             LHCUPBND=
LHCLOBND=           SURFTENS=             INTFTTMP=
SOLUBPNT=           SOLUBTMP=             AVP  =
BVP  =              CVP  =                VPLWRBND=
BVCP  =              CVCP  =              VHCLOBND=
HTFUSION=           LHTVAPOR=             HTSOLUTN=
HTREACTN=           HTPOLYMR=             BURNRATE=
TOXINHAL=           INHALCNC=             UPTOXLIM=
LATETOX =           ABFLMTMP=             FLMETEMP=
MOLFRAC =           MOLRATIO=             AIRFUEL =
*****

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DID	CHEMNAME = DIISOUCEYL PHTHALATE	PATHCODE = A T U	
MOLECWT =	446.7	NFP =	223.0
DENSITY =	967.0	SHSTATE=L	
CRHO =		LDLWRBND=	293.1
AVIS =	-25.36	BVIS =	6800.
LTHCNTMP=		ACON =	
LQHTCPPT=		LQHTCPTM=	
LHCLOBND=		SURFTENS=	
SOLUBPNT=		SOLUBTMP=	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=		INHALCNC=	
LAETOX =		ABFLMTMP=	
MOLFRAC =			

CRITPRES=		CRITTEMP=	
BRHO =		ARHO =	
LQVISTMP=	298.1	LQVISPNT=	0.7900E-01
LQTHRCND=		LVLWRBND=	273.1
LTCLOBND=		LTCUPBND=	
LHCUPBND=		BHC =	
INTFTTMP=		INTFTENS=	
AVP =		B =	
AVCP =		VPLWRBND=	
VHCLOBND=		VHCUPBND=	
HTSOLUTN=		HTCOMISTN=	-0.3860E+08(E)
BURNRATE=		UPFLNLIM=	0.2700
UPTOXLIM=		LOTOXLIM=	
FLMETEMP=		AIRFUEL =	

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DIH	CHEMNAME = DIISOPROPYLBENZENE HYDROPEROXIDE	PATHCODE = A	T	U	
	MOLEWT = 194.3	NBP =			
	DENSITY = 956.0	DENSTEMP = 288.1			
	CRHO = 0.0000E+00(E)	LDUPREND = 298.1			
	AVIS =	BVIS =			
	LTHCNTMP =	ACON =			
	LQHTCPT =	LQHTCPTM =			
	LHCLOBND =	SURFTENS =			
	SOLUBPNT =	SOLUBTMP =			
	BVP =	CVP =			
	BVCP =	CVCP =			
	HTFUSION =	LHTVAPOR =			
	HTREACTN =	HTPOLYMR =			
	TOXINHAL =	INHALCNC =			
	LAFETOX =	ABFLMTMP =			
	MOLFRAC =				
		NFP =	264.0	(E)	CRITTEMP =
		SHPSSTATE = L			
		LDLWREND =	283.1		ARHO =
		LVUPRBNND =			LOVISPT =
		BCON =			LVLWRBND =
		AHC =			LTCUPBND =
		SFTNTEMP =			BHC =
		A =			INTFTENS =
		VPUPRBNND =			B =
		DVCP =			VPLWRBND =
		HTCOVSTN =			VHCUPBND =
		LOFLMLIM =			HTSOLUTN =
		INHALTME =			UPFLMLIM =
		MOLRATIO =			LOTOXLIM =
					AIRFUEL =
					CRITPRES =
					(E) BRHO =
					LOVISTMP =
					LOTHRCND =
					LTCLOBND =
					LHCUPBND =
					INTFTTMP =
					AVP =
					AVCP =
					VHCLOBND =
					HTSOLUTN =
					BURNRATE =
					UPTOXLIM =
					FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DIM  CHEMNAME = DIMETHYL ETHER
      MOLEWT = 46.10      NBP = 248.5      NFP = 131.7      CRITPRES= 0.5400E+07
      DENSITY = 724.0      DENSTEMP= 248.4      SHPSTATE=L      BRHO = -1.500
      CRHO = 0.0000E+00      LDUPRSD= 313.1      LDWRBND= 253.1      LQVISPNT= 0.2350E-03      LQVISTMP= 248.6
      AVIS = -10.74      BVIS = 592.0      LVUPRSD= 273.1      LVLWRBND= 233.1      LQTHPCND= 0.1396
      LTHCNTMP= 248.6      ACON = 0.2380      BCON = -0.4070E-03      LTCUPEND= 273.1      LTCLOEND= 233.1
      LOHTCPPT= 2261.      LOHTCPTM= 248.4      AHC = 1222.      SHC = 4.187      LHCUPEND= 273.1
      LHCLOBND= 243.1      SURFTENS= 0.2100E-01      SFTNIEMP= 233.1      INTFTENS= 0.1500E-01(E)      INTFTTMP= 233.1
      SOLUBPNT= 7.000      SOLUBTMP= 293.1      A =      B =      AVP = 9.943
      BVP = 1227.      CVP = -0.1500      VPUPRSD= 253.1      VPLWRSD= 193.1      AVCP = 0.2581E+05
      BVCP = 135.2      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.4650E+06      HTCONSTN= -0.3130E+08      HTDECOMP=      HTSOLUTN=
      HTRACTN=      HTPOLYMR=      LOFLMLIM= 2.000      UPFLMLIM= 50.00      BURNRATE= 0.1102E-03
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
      LATETOX =      ABFLMTMP=      MOLRATIO= 0.8000      (E) AIRFUEL = 8.934      (E) FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DIP  CHEMNAME = DIISOPROPANOLAMINE      PATHCODE = A  P  Q
MOLEWT = 133.2      NBP = 521.9      CRITTEMP = 672.0      CRITPRE = 0.3600E+07
DENSITY = 990.0      DENSTEMP = 315.2      SHPSTATE=L      ARHO = 1211.      BRHO = -0.7000
CRHO = 0.0000E+00      LDUPRND = 373.2      LDLWRND = 315.2      LQVISPT = LQVISTMP =
AVIS =      BVIS =      LVUPRND =      LVLWRND =      LQTHRCND =
LTHCNTMP =      ACON =      BCON =      LTCUPRND =      LTCLOBND =
LQHTCPPT = 2200.      (E) LQHTCPTM = 323.0      (E) AHC = 2200.      (E) BHC = 0.0000E+00(E) LHCUPBND = 333.0      (E)
LHCLOBND = 320.0      (E) SURFTENS =      SFTNTEMP =      INTFTENS =      INTFTTMP =
SOLUBPNT =      SOLUBTMP =      A =      B =      AVP = 12.03
BVP = 3600.      CVP = 0.4004E-01      VPUPRND = 473.2      VPLWRND = 315.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPRND =      VHCLOBND =
HTFUSION = 0.1968E+06      LHTVAPOR = 0.4312E+06      HTCOMSTN = -0.2870E+08(E) HTDECOMP =      HTSOLUTN = -0.3000E+05(E)
HTREACTN =      HTPOLYMP =      LOFLWLI = 1.100      UPFLMLIN = 5.400      BURNRATE =
TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIN = 0.5000E-03      UPTOXLIN = 0.5000E-02
LAFETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DLP    CHEMNAME = DALAPON
      MOLECW = 143.0      NBP = 463.0      NFP = 281.0      CRITPRES=
      DENSITY = 1390.     DENSTEMP= 296.1    SHPSTATE=L      ARHO =
      CRHO =              LDUPREND=          LDLWRBND=      LOVISPM=
      AVIS =              BVIS =             LVUPRBNBND=      LQTHRCND=
      LTHCNTMP=           ACON =              BCON =          LTCLOBND=
      LQHTCPPT=           LQHTCPIM=          AHC =            LHCUPBND=
      LHCLOBND=           SURFTENS=          SFTNTEMP=        INTFTIMP=
      SOLUBPNT=           SOLUBTMP=          A =              B =
      BVP = 2918.         CVP = 0.5000E-01    VPUPRBNBND= 473.1  VPLWRBND=
      BVCP =              CVCP =             DVCN =          VHCUPBND=
      HTFUSION=           LHTVAPOR=          HTCONSTN=       HTSOLUTN=
      HTREACTN=           HTPOLYMR=          LOFLMLIM=       UPFLMLIM=
      TOXINHAL=           INHALCNC=          INHALTME=       LOTOXLIM=
      LATETOX =           ABFLMTMP=          MOLRATIO=       UPTOXLIM=
      MOLFRAC =           MOLFRAC =          MOLFRAC =       FLMETEMP=
      CRITPRES=
      BRHO =
      LOVISPM=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTIMP=
      AVP = 11.31
      AVCP =
      VHCLOEND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.8000E-02
      FLMETEMP=
      UPTOXLIM= 0.6000E-02
      AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DMA  CHEMNAME = DIMETHYLAMINE
      MOLEWT = 45.08      NBP = 280.1      NFP = 181.0      CRITTEMP= 437.8      CRITPRES= 0.5310E+07
      DENSITY = 671.0      DENSTEMP= 280.1      SHPSTATE=L      ARHO = 1008.      BRHO = -1.200
      CRHO = 0.0000E+00      LDUPRSND= 308.2      LDWRBND= 263.2      LQVISPAT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 3098.      LOHTCPTM= 293.2      AHC = 2362.      BHC = 2.512      LHCUPBND= 303.2
      LHCLOBND= 233.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.42
      BVP = 1517.      CVP = 0.4004E-01      VPUPRSND= 303.2      VPLWRBND= 233.2      AVCP = 8499.
      BVCP = 220.2      CVCP = -0.5862E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLBND= 250.0
      HTFUSION= 0.1319E+06      LHTVAPOR= 0.5882E+06      HTCOMSTN= -0.3910E+08      HTDECOMP=      HTSOLUTN= -0.1197E+07
      HTREACTN=      HTPOLYMR=      LOFLWLIM= 2.800      UPFLWLIM= 14.40      BURNRATE= 0.7500E-04
      TOXINHAL= 10.00      INHALCNC= 20.00      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO= 0.7917      (E) AIRFUEL = 11.42      (E) FLMETEMP=
      MOLFRAC =      MOLRATIO= 0.7917      (E) AIRFUEL = 11.42      (E) FLMETEMP=

```

A O

Q.

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DME  CHEMNAME = DIETHYLENE GLYCOL MONOBUTYL ETHER      PATHCODE = A  P  Q
MOLECW = 162.2      NBP = 504.0      NFP = 205.0      CRITTEMP=
DENSITY = 954.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1174.      BRHO = -0.7500
CRHO = 0.0000E+00      LDUPRBND= 313.1      LDWRBND= 273.1      LOVISPNT= 0.6300E-02      LQVISTMP= 293.1
AVIS = -13.31      BVIS = 2417.      LVUPRBND= 343.1      LVLWRBND= 273.1      LQTHRCND= 0.1628
LTHCNTMP= 288.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOSND= 283.1
LOHTCPPT= 2177.      LOHTCPTM= 293.1      AHC = 1157.      EHC = 3.475      LHCUPBND= 333.1
LHCLOBND= 273.1      SURFTENS= 0.3400E-01      SFTNTIMP= 298.1      INTFTENS=      INTFTIMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.87
BVP = 2954.      CVP = -0.1500      VPUPRBND= 503.1      VPLWRBND= 373.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3100E+06      HTCOBNTN= -0.3300E+08(E)      HTDECOMP=      HTSOLUTN= -0.8400E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.5511E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DMF CHEMNAME = DIMETHYLFORMAMIDE

PATHCODE = A P Q

MOLEWT = 73.09	NBP = 426.0	NFP = 212.0	CRITTEMP =	CRITPRES =
DENSITY = 950.0	DENSTEMP = 293.2	SHPSTATE = L	ARHO = 1234.	BRHO = -0.9700
CRHO = 0.0000E+00	LDUPRND = 373.2	LDLWRSND = 273.2	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRSND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 2052.	LQHTCPTM = 293.2	AHC = 1438.	BHC = 2.093	LHCUPBND = 373.2
LHCLOBND = 253.2	SURFTENS =	SFTINTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.76
BVP = 2406.	CVP = 0.4004E-01	VPUPRSND = 373.2	VPLWRND = 253.2	AVCP = 0.1876E+05
BVCP = 244.9	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.5778E+06	HTCOMBTN = -0.2624E+08	HTDECOMP =	HTSOLUTN = -0.1465E+06
HTREACTN =	HTPOLYMR =	LOFLWLM = 2.200	UPFLWLM = 15.20	BURNRATE = 0.3667E-04
TOXINHAL = 10.00	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-02	UPTOXLIM = 0.1500E-01
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DMH  CHEMNAME = 1,1-DIMETHYLHYDRAZINE      PATHCODE = A  P  Q  R  S
      MOLEWT = 60.11  NBP = 336.5  CRITTEMP= 522.0  CRITPRES= 0.5964E+07
      DENSITY = 791.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1095.  BRHO = -1.0000
      CRHO = 0.0000E+00  LDUPREND= 323.2  LDWISPT=  LQVISTMP=
      AVIS =  BVIS =  LVUPRBND=  LVLWRBND=  LQTHRCND=
      LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
      LQHTCPPT= 2730.  LQHTCPTM= 298.2  AHC = 1481.  BHC = 4.187  LHCUPBND= 323.2
      LHCLOBND= 283.2  SURFTENS= 0.2800E-01  SFTNTEMP= 298.2  INTFTENS=  INTFTTMP=
      SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.30
      BVP = 1784.  CVP = 0.4004E-01  VPUPRBND= 333.2  VPLWRBND= 253.2  AVCP = 0.6300E+05(E)
      BVCP = 0.0000E+00(E)  CVCP = 0.0000E+00(E)  DVCP = 0.0000E+00(E)  VHCUPBND= 400.0  (E)  VHCLOBND= 300.0  (E)
      HTFUSION=  LHTVAPOR= 0.6071E+06  HTCOMBNTN= -0.3295E+08  HTDECOMP=  HTSOLUTN= -0.6000E+05(E)
      HTREACTN=  HTPOLYMR=  LOFLWLIM= 2.000  UPFLWLIM= 95.00  BURNRATE= 0.6333E-04
      TOXINHAL= 0.5000  INHALCNC= 100.0  INHALTME= 600.0  LTOXLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
      LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
      MOLFRAC =  FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DMS  CHEMNAME = DIMETHYL SULFOXIDE          PATHCODE = A  P  Q
MOLEWT = 78.13      NBP = 462.0      NFP = 291.8      CRITPRES=
DENSITY = 1101.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1393.      BRHO = -1.0000
CRHO = 0.0000E+00      LOUPRBND= 313.2      LDLPBND= 291.2      LOVISBND= 1393.      LOVISTMP=
AVIS =              BVIS =              LVUPRBND=          LQTHRCND=          LQTHRCND=
LTHCNTMP=          ACON =              BCON =              LTCUPBND=          LTCLOBND=
LOHTCPPT= 1968.      LOHTCPTM= 293.2      AHC = 1468.      EHC = 1.675      LHCUPBND= 423.2
LHCLOBND= 291.2      SURFTENS=          SFTNTEMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =              B =              AVP = 10.56
BVP = 2570.      CVP = 0.4004E-01      VPUPRBND= 413.2      VPLWPNBND= 291.2      AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION= 0.1842E+06      LHTVAPOR= 0.6029E+06      HTCONBTDN= -0.2533E+08      HTSOLUTN= -0.2261E+06
HTREACTN=          HTPOLYMR=          LOFLMLIM= 3.000      UPFLMLIM= 63.00      BURNRATE= 0.3333E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.1500E-01(E)      UPTOXLIM=
LATETOX =          ABFLTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DMT  CHEMNAME = DIMETHYL TEREPHTHALATE      PATHCODE = A  T  U  X  Y  II
      MOLECW = 194.2      NBP = 555.0      NFP = 413.0      CRITTEMP=      CRITPRES=
      DENSITY = 1200.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =      BRHO =
      CRHO =      LDUPREND=      LDLPREND=      LVLWREND= 523.1      LQVISPNT= 0.5100E-03      LQVISTMP= 473.1
      AVIS = -12.16      BVIS = 2162.      LVUPREND=      LTCUPREND=      LTCLOBND=
      LTHCNTMP=      ACON =      BCON =      BHC =      LHCUPEND=
      LQHTCPPT=      LQHTCPTM=      AHC =      INTFTENS=      INTFTTMP=
      LHCLOBND=      SURFTENS=      SFTNTMP=      S      =      AVP =
      SOLUBPNT=      SOLUBTMP=      A      =      VPLWRBND=      AVCP =
      BVP =      CVP =      VPUPREND=      VHCUPBND=      VHCLOBND=
      BVCP =      CVCP =      DVCP =      HTCO*BTN= -0.2396E+08      HTSOLUTN=
      HTFUSION=      LHTVAPOR= 0.2810E+06      HTDECOMP=      BURNRATE=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
      TOXINHAL=      INHALCNC=      INHALTME=      -JTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DMZ  CHEMNAME = DIMETHYLZINC          PATHCODE = A  O  Z
MOLEWT = 55.40      NBP = 318.0      NFP = 231.0      CRITTEMP=
DENSITY = 1390.     DENSTEMP= 283.6  SHPSTATE=L      CRITPRES=
CRHO = 0.0000E+00(E) LDUPREND= 303.1  LDLPREND= 273.1  LDVISPNT= 0.8200E-03(E) LOVISTMP= 293.1
AVIS = -11.61      (E) BVIS = 1320.  (E) LVUPREND= 303.1  LVLWPREND= 283.1  LOTHRCND= 0.1628  (E)
LTHCNTMP= 293.1    ACON = 0.1628  (E) BCON = 0.0000E+00(E) LTCUPREND= 303.1  LTCLOBND= 283.1
LOHTCPTP= 1926.    (E) LOHTCPTM= 293.1  AHC = 1926.    EPC = 0.0000E+00  LHCUPEND= 303.1
LHCLOBND= 283.1    SURFTENS= 0.1800E-01(E) SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.786
BVP = 1520.        CVP = -0.1500  VPUPREND= 323.1  VPLWPREND= 273.1  AVCP =
BVCP =            CVCP =          DVCP =          VHCUPREND=  VHCLOBND=
HTFUSION=          LHTVAPOR= 0.3100E+06(E) HTCOWBTN=  HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLIM=  UPFLWLIM=
TOXINHAL=          INHALCNC=          INHALIME=  LOTOXLIM=
LARETOX =          ABFLNTMP=          MOLRATIO=  AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DNB  CHEMNAME = M-DINITROBENZENE          PATHCODE = II
MOLEWT = 168.1      NBP = 564.0      NFP = 363.0      CRITTEMP=
DENSITY = 1580.      DENSTEMP= 291.1      SHPSTATE=S      ARHO =
CRHO =              LDUPRBND=              LVLWRBND=      LOVISTWP=
AVIS =              BVIS =              LVUPRBND=      LQTHRCND=
LTHCNTMP=          ACON =              BCON =              LTCLOEND=
LQHTCPPT=          LQHTCPTM=          AHC =              LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=      INTFTTMP=
SOLUBPNT= 0.7500E-02  SOLUBTMP= 268.1      A = -0.1366      B = 0.5000E-03      AVP =
BVP =              CVP =              VPUPRBND=      VPLWRBND=      AVCP =
BVCP =              CVCP =              DVCP =              VHCUPBND=      VHCLOEND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.1715E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1330      INHALCNC=          INHALTME=      LQTOXLIM=      UPTOXLIM= 0.5000E-04(E
LAFETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/51/45 PAGE330

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DNC		CHEMNAME = DINITROGRESOLS		PATHCODE = II	
MOLEWT =	198.0	NBP =		NFP =	356.0 (E) CRITTEMP=
DENSITY =	1100.	(E) DENSTEMP=	293.1	SHPSTATE=S	ARHO =
CRHO =		LDUPRBNP=		LDLWRBNP=	LDVISPNT=
AVIS =		BVIS =		LVUPRBNP=	LVLWRBNP=
LTHCNTMP=		ACON =		BCON =	LTCUPBNP=
LQHTCPPT=		LQHTCPTM=		AHC =	LHCUPBNP=
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTEMP=
SOLUBPNT=		SOLUBTMP=		A =	AVP =
BVP =		CVP =		VPUPRBNP=	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND=
HTFUSIGN=		LHTVAPOR=		HTCONSTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	BURNRATE=
TOXINHAL=	0.2260E-01	INHALCNC=	0.1132	INHALTME=	UPTOXLIM=
LAETOX =		ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

0.5000E-04(E)

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DNP CHEMNAME = 2,4-DINITROPHENOL PATHCODE = 11

MOLEWT = 184.1	NBP =	NFP = 386.0	CRITPRES=
DENSITY = 1680.	DENSTEMP= 293.2	SHPSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRSND=	LQVISIMP=
AVIS =	BVIS =	LVUPRSND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLYLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04(E)
LAFETOX =	ABFLNTEMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DNT      CHEMNAME = 2,4-DINITROANILINE      PATHCODE = II
MOLECWT = 183.1      NBP      =      NFP      = 460.0
DENSITY = 1615.      DENSTEMP= 288.2      SHPSTATE=S
CRHO    =      LDUPREND=      BVIS      =      LVUPREND=
AVIS    =      ACON      =      LQHTCPTM=      SURFTENS=
LTHCNTMP=      LQHTCPPT=      LHCLOBND=      SOLUBPNT=
BVP      =      CVP      =      CVCP      =      LHTVAPOR=
BVCP      =      HTFUSION=      HTREACTN=      TOXINHAL=
LATETOX =      ABFLMTMP=      MOLFRAC  =
CRITPRES=      CRITTENP=      ARHO      =      LQVISANT=
BRHO      =      LQVISTMP=      LQTHRCND=      LTCLOBND=
LHCUPBND=      INTFTIMP=      AVP      =      AVCP      =
VHCLOBND=      HTSOLUTN=      BURNRATE=      UPTOXLIM=
FLMETEMP=      B      =      VPLWRBND=      VHCUPBND=
HTDECOMP=      UPFLMLIM=      JTOXLIM=      AIRFUEL  =
MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DOA  CHEMNAME = DIOCTYL ADIPATE      PATHCODE = A  T  U
MOLEWT = 371.0      NBP =              CRITPRES=
DENSITY = 928.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1221.      BRHO = -1.0000
CRHO = 0.0000E+00      LDUPRND= 303.2      LDLWRSND= 288.2      LQVISPNT= 0.1300E-01      LQVISTMP= 293.2
AVIS = -11.01      BVIS = 1955.      LVUPRND= 333.2      LVLWRBND= 283.2      LQTHRCND= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.0      (E) LTCLOBND= 273.0      (E)
LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E)      LHCUPBND= 298.0      (E)
LHCLOBND= 273.0      (E) SURFTENS= 0.1500E-01(E)      SFTNTMP= 293.0      (E) INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.0      (E)
SOLUBPNT=              SOLUBTMP=              A =              B =              AVP =
BVP =              CVP =              VPUPRND=              VPLWRBND=              AVCp =
BVCP =              CVCP =              DVCP =              VHCUPBND=              VHCLOBND=
HTFUSION=              LHTVAPOR=              HTCOMSTN= -0.3590E+08(E)      HTDECOMP=              HTSOLUTN=
HTREACTN=              HTPOLYMR=              LOFLMLIM=              UPFLMLIM=              BURNRATE=
TOXINHAL=              INHALCNC=              INHALTME=              LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =              ABFLMTMP=              MOLRATIO=              AIRFUEL =              FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DOP      CHEMNAME = DIOCTYL PHTHALATE      PATHCODE = A   T   U   X   Y
MOLECHT = 390.6      NBP      = 659.2      NFP      =      CRITTEMP=
DENSITY = 980.0      DENSTEMP= 298.2      SHPSSTATE=L      ARHO      = 1273      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRBND= 303.2      (E) LVUPRBND= 298.0      (E) LVLWRBND= 273.0      (E) LQVISTMP= 293.0      (E)
AVIS      = -18.80      (E) BVIS      = 4000.      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.0      (E) LQTHRCND= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON      = 0.1500      (E) AHC      = 2000.      (E) BHC      = 0.0000E+00(E) LTCLOBND= 273.0      (E)
LQHTCPPT= 2000.      (E) LOHTCPTM= 293.0      (E) SFTNTMP= 293.0      (E) INTFTENS= 0.3000E-01(E) INTFTTMP= 293.0      (E)
LHCLOBND= 273.0      (E) SURFTENS= 0.1500E-01(E) A      =      B      =      AVP      = 12.88
SOLUBPNT= 0.5000E-02      SOLUBTMP= 298.2      A      =      VPUPEBND= 503.2      VPLWRBND= 443.2      AVCP      =
BVP      = 5013.      CVP      = -0.1599      VPUPRBND= 503.2      VPLWRBND= 443.2      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.3590E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      -JTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DOX	CHEMNAME = 1,4-DIOXANE										PATHCODE = A P Q									
MOLECW	=	88.11	NBP	=	374.5	NFP	=	285.2	CRITTEMP	=	587.0	CRITPRES	=	0.5210E+07						
DENSITY	=	1036.	DENSTEMP	=	293.2	SHPSTATE	=	L	ARHO	=	1387.	BRHO	=	-1.200						
CRHO	=	0.0000E+00	LDUPRND	=	373.2	LDLWRND	=	288.2	LDVISPNT	=		LOVISIMP	=							
AVIS	=		BVIS	=		LVUPRND	=		LVLWRBD	=		LOTHRCND	=							
LTHCNTMP	=		ACON	=		BCON	=		LTCURBND	=		LTCLOBND	=							
LQHTCPT	=	1691.	LQHTCPTM	=	293.2	AHC	=	955.0	BHC	=	2.512	LHCUPBND	=	453.2						
LHCLOBND	=	288.2	SURFTENS	=		SFTNTEMP	=		INTFTENS	=		INTFTTMP	=							
SOLUBSPT	=		SOLUBTMP	=		A	=		B	=		AVP	=	10.24						
BVP	=	1960.	CVP	=	0.4004E-01	VPUPRND	=	403.2	VPLWRBD	=	288.2	AVCP	=	-0.1051E+05						
BVCP	=	373.9	CVCP	=	-0.7955E-01	DVCP	=	0.0000E+00	VHCUPB'D	=	600.0	VHCLOBND	=	250.0						
HTFUSION	=		LHTVAPOR	=	0.4128E+06	HTCOMBTN	=	-0.2696E+08	HTDECOMP	=		HTSOLUTN	=	-0.2000E+05(E						
HTRACTN	=		HTPOLYMR	=		LOFLWLM	=	1.970	UPFLMLIM	=	22.50	BURNRATE	=							
TOXINHAL	=	100.0	INHLCNC	=		INHALIME	=		LOTOXLIM	=	0.5000E-03	UPTOXLIM	=	0.5000E-02						
LAFETOX	=		ABFLMTMP	=		MOLRATIO	=		AIRFUEL	=		FLMETEMP	=							
MOLFRAC	=																			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

DPA CHEMNAME = DIBUTYL PHTHALATE

PATHCODE = A T U X Y

MOLEWT = 278.3	NBP = 608.0	NFP = 238.0	CRITTEMP=	773.0	CRITPRES= 0.1700E+07
DENSITY = 1049.	DENSTEMP=	SHPSSTATE=L	ARHO =	1295.	BRHO = -0.8400
CRHO = 0.0000E+00	LDUPRND=	LDLWRBND=	LOVISPNT=	0.2000E-01	LQVISTMP= 293.2
AVIS = -12.52	BVIS = 2522.	LVUPRND=	LVLWRBND=	283.2	LOTHRCND= 0.1500 (E)
LTHCNTMP=	(E) ACON =	(E) BCON =	0.0000E+00(E)	LTCUPBND=	273.0 (E)
LQHTCPT=	(E) LQHTCPTM=	(E) AHC =	2200. (E)	BHC =	0.0000E+00(E)
LHCLOBND=	(E) SURFTENS=	SFTNTEMP=	293.2	INTFTENS=	0.5000E-01(E)
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	13.21
BVP = 4690.	CVP =	0.4004E-01	VPUPRND=	473.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCONSTN=	-0.3060E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	0.5000	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.4030	INHALCNC=	INHALTIME=	0.5000E-02	UPTOXLIM=	0.1500E-01
LATEFOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DPD  CHEMNAME = DIPHENYLDICHLOROSILANE      PATHCODE = A  O
MOLECW = 253.0      NBP = 577.0      CRITTEMP =
DENSITY = 1220.      DENSTEMP = 298.1      SHPSRATE=L      NFP =
CRHO = 0.0000E+00(E) LDUPREND = 303.1      LDWREND = 283.1      LOVISPT = 0.5700E-02(E) LOVISTMP = 293.1      (E) BRHO = -1.000      (E)
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPR3ND = 303.1      LVLWRBND = 283.1      LQTHRCND = 0.1512      (E)
LTHCNTMP = 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND = 303.1      LTCLOEND = 283.1
LQHTCPPT = 1675.      (E) LQHTCPTM = 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND = 303.1
LHCLOBND = 283.1      SURFTENS = 0.2600E-01(E) SFTNTMP = 293.1      INTFTENS =
SOLUBPNT =
BVP = 3211.      CVP = -0.1500      VPUPR3ND = 577.1      VPLWRBND = 473.1      AVCP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL =
LAFETOX =
MOLFRAC =
LHTVAPOR = 0.2500E+06      HTCOM3TN = -0.2600E+08(E) HTDECCMP =
HTPOLYMR =
LOFLMLIM =
INHALCNC =
ABFLMTMP =
LOTOXLIM = 0.5000E-04      UPTOXLIM = 0.5000E-03
MOLRATIO =
AIRFUEL =
FLMETEMP =
BURNRATE = 0.4509E-04

```

PATHCODE = A T

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DPG	CHEMNAME = DIPROPYLENE GLYCOL										PATHCODE = A P Q									
	MOLEWT =	134.2	NBP =	489.0	NFP =	233.0	(E) CRITTEMP=	655.0	CRITPRES=	0.3600E+07										
	DENSITY =	1023.	DENSTEMP=	293.2	SHPSTATE=L	ARHO =	1237.		BRHO =	-0.7300										
	CRHO =	0.0000E+00	LDUPRBND=	373.2	LDLWRBND=	273.2	LQVISP,T=		LOVISTMP=											
	AVIS =		BVIS =		LVUPRGRND=		LVLWRBND=		LOTHRCND=											
	LTHCNTMP=		ACON =		BCON =		LTCUPBND=		LTCLOBND=											
	LQHTCPT=	2407.	LQHTCPT,H=	293.2	AHC =	1057.	BHC =	4.605	LHCUPSND=	413.2										
	LHCLOBND=	273.2	SURFTENS=		SFTNTEMP=		INTFTEIS=		INTFTTMP=											
	SOLUBPNT=		SOLUBTMP=		A =		B =		AVP =	9.663										
	BVP =	2546.	CVP =	0.4004E-01	VPUPRSND=	423.2	VPLWRBND=	293.2	AVCP =	0.4534E+05										
	BVCP =	632.2	CVCP =	-0.3559	DVCP =	0.7118E-04	VHCUPSND=	600.0	VHCLOSND=	250.0										
	HTFUSION=		LHTVAPOR=	0.4019E+06	HTCOMSTN=	-0.2620E+08(E)	HTDECOMP=		HTSOLUTN=	-0.3000E+05(E)										
	HTREACTN=		HTPOLYMR=		LOFLMLIM=	2.200	UPFLMLIM=		BURNRATE=											
	TOXINHAL=		INHALLCNC=		INHALTIME=		LOTOXLIN=	0.5000E-02	UPTOXLIM=	0.1500E-01										
	LAFETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=											
	MOLFRAC =																			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DPH  CHEMNAME = DIETHYL PHTHALATE
      MOLEWT = 222.0      NBP = 571.7      NFP = 270.0      CRITPRES=
      DENSITY = 1120.     DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1120.     BRHO = 0.0000E+00
      CRHO = 0.0000E+00    LDUPRBND= 298.1      LDLWPSND= 283.1      LQVISFNT= 0.1210E-01  LQVISTMP= 293.1
      AVIS = -18.83       BVIS = 4225.     LVUPRSND= 298.1      LVLWRBND= 273.1      LQTHRCND=
      LTHCNTMP=           ACON =           BCON =           LTCUPBND=           LTCLOBND=
      LQHTCPPT=           LOHTCPTM=           AHC =           BHC =           LHCUPBND=
      LHCLOBND=           SURFTENS= 0.3750E-01      SFTNTEMP= 293.1      INTFTENS= 0.1627E-01  INTFTIMP= 293.6
      SOLUBPNT= 0.1200E-01      SOLUBTMP= 293.1      A =           B =           AVP =
      BVP =           CVP =           VPUPRBND=           VPLWRBND=           AVCP =
      BVCP =           CVCP =           DVCP =           VHCUPBND=           VHCLOBND=
      HTFUSION=           LHTVAPOR=           HTCORSTN= -0.2660E+08(E)  HTDECOMP=           HTSOLUTN=
      HTREACTN=           HTPOLYMR=           LOFLMLIM= 0.7500      UPFLMLIN=           BURNRATE=
      TOXINHAL=           INHALCNC=           INHALTIME=           LOTCXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
      LATETOX =           ABFLMTMP=           MOLRATIO=           AIRFUEL =           FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DPM  CHEMNAME = DIPHENYLMETHANEDIISOCYANATE (MDI)      PATHCODE = II
MOLEWT = 250.3      NBP = 665.0      NFP = 311.0      CRITTEMP=
DENSITY = 1200.      DENSTEMP= 293.2      SHPSTATE=S      ARHO =
CRHO =      LDUPRND=      BVIS = 2276.      LVUPRND= 373.2      LTCUPEND=
AVIS = -12.34      ACON =      LQHTCPTM=      SURFTENS=      INTFTTNP=
LTHCNTMP=      LQHTCPPT=      LHCLOBND=      SOLUBPNT=      AVP =
BVP =      CVP =      CVCP =      LHTVAPOR=      HTFUSION=      HTSOLUTN= -0.6000E+05(E
HTREACTN=      HTPOLYMR=      INHALCNC=      TOXINHAL= 0.2000      BURNRATE=
LATETOX =      ABFLMTMP=      MOLRATIO=      UPTOXLIM=
MOLFRAC =

```

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PATHCODE = II

MOLEWT =	242.2	NBP	=	376.0	CRITTEMP=	CRITPRES=
DENSITY =	1334.	DENSTEMP=	288.2	SHPSTATE=S	ARHO	BRHO
CRHO	=	LDUPRND=		LDLWRND=	LQVISPNT=	LQVISTMP=
AVIS	=	BVIS	=	LVUPRND=	LVLWRND=	LQTHRCND=
LTHCNTMP=		ACON	=	BCON	LTCUPBND=	LTCLOBND=
LQHTCPT=		LQHTCPTM=		AHC	BHC	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	19.00	(E) SOLUBTMP=	298.2	A	B	AVP
BVP	=	CVP	=	VPUPRND=	VPLWRBND=	AVCP
BVCP	=	CVCP	=	DVCP	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	0.4630	INHALCNC=		INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX	=	ABFLMTMP=		MOLRATIO=	AIRFUEL	FLMETEMP=
MOLFRAC	=					
					0.5000E-03	0.5000E-02

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/52/14 PAGE346

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

DPR  CHEMNAME = DICHLOROPROPENE      PATHCODE = A  X  Y
MOLEWT = 111.0      NBP = 350.0      CRITTEMP=
DENSITY = 1200.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1493.      CRITPRES=
CRHO = 0.0000E+00      LDUPREND= 303.2      LDLWREND= 273.2      LQVISP.T=      LOVISTMP=
AVIS =      BVIS =      LVUPREND=      BCON =      LTCUPBND=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=      LHCUPBND= 293.0 (E)
LQHTCPPT= 2000.      (E) LOHTCPTM= 293.0 (E) AHC = 2000.      (E) BHC =      (E) INTFTT= 293.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTT= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.560 (E)
BVP = 1594.      (E) CVP = 0.0000E+00(E) VPUPREND= 323.0 (E) VPLWRBND= 273.0 (E) AVCP = 0.1426E+05(E)
BVCP = 267.0 (E) CVCP = -0.1600 (E) DVCP = 0.3600E-04(E) VHCUPBND= 400.0 (E) VHCLOBND= 270.0 (E)
HTFUSION=      LHTVAPOR= 0.2750E+06(E) HTCON3TN= -0.1600E+08(E) HTSECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.5670E-04(E)
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM= 0.5000E-04      FLMETEMP=
LAFETOX =      ABFLMTMP=      MOLRATIC=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

DPT  CHEMNAME = DICYCLOPENTADIENE          PATHCODE = A  T  U
MOLECWT = 132.3      NBP      = 443.0      NFP      = 278.0      CRITTEMP=
DENSITY = 978.0      DENSTEMP= 293.2      SHPSTATE=L      ARHC      = 725.8      BRHO      = -1.000
CRHO      = 0.0000E+00      LDUPRND= 303.2      (E) LVUPRND= 283.2      LDWRSND= 283.0      (E) LQVISPAT= 0.7000E-03(E) LQVISTMP= 298.0      (E)
AVIS      = -11.70      (E) BVIS      = 1320.      (E) LVUPRND= 283.0      (E) LVLWRBND= 283.0      (E) LQTHRCND= 0.1500      (E)
LTHCNTMP= 298.0      (E) ACON      = 0.1500      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.0      (E) LTCLOBND= 283.0      (E)
LQHTCPPT= 2000.      (E) LQHTCPTM= 298.0      (E) AHC      = 2000.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.0      (E)
LHCLOBND= 288.0      (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 298.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 298.0      (E)
SOLUBPNT= 0.2000E-01(E) SOLUBTMP= 293.2      A      =      B      =      AVP      = 9.623      (E)
BVP      = 2045.      (E) CVP      = 0.0000E+00(E) VPUPRND= 443.0      (E) VPLWRBND= 283.0      (E) AVCP      =
BVCP      =      CVCP      =      DVC      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2960E+06(E) HTCOMB3TN= -0.4060E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.8000      UPFLMLIM= 6.300      BURNRATE=
TOXINHAL= 75.00      (E) INHALCNC=      INHALTME=      UPTOXLIM=
LAETOX      =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DSD	CHEMNAME = DODECYL SULFATE, DIETHANOLAMINE SALT	PATHCODE = A	P
MOLECW	=	NBP	=
DENSITY	= 1010.	DENSTEMP	= 293.1
CRHO	=	LDUPREND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	=	SOLUBTMP	=
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	=	INHALCNC	=
LATETOX	=	ABFLTMP	=
MOLFRAC	=		
CRITPRES	=	CRITTEMP	=
BRHO	=	ARHO	=
LQVISTMP	=	LQVISPNT	=
LQTHRCND	=	LVLWRBND	=
LTCLOBND	=	LTCUPBND	=
LHCUPBND	=	BHC	=
INTFTTMP	=	INTFTENS	=
AVP	=	B	=
AVCP	=	VPLWRBND	=
VHCLOBND	=	VHCUPBND	=
HTSOLUTN	=	HTDECOMP	=
BURNRATE	=	UPFLMLIM	=
UPTOXLIM	=	LOTOXLIM	=
FLMETEMP	=	AIRFUEL	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
DSF  CHEMNAME = DIMETHYL SULFATE      PATHCODE = A  P  Q  X  Y
MOLEWT = 126.1      NBP = 462.0      CRITPRES=
DENSITY = 1330.      DENSTEMP= 288.2      SHPSTATE=L      ARHO = 1680.      BRHO = -1.200
CRHO = 0.0000E+00    LDUPRND= 298.2      LDLWESND= 273.2      LOVISPT= 0.2732E-02      LOVISTMP= 273.2
AVIS = -11.51        BVIS = 1531.      LVUPRND= 373.2      LVLWRBND= 263.2      LQTHRCND=
LTHCNTMP=            ACON =            BCON =            LTCUPBND=      LTCLOBND=
LOHTCPPT= 2500.      (E) LOHTCPTM= 293.0      (E) AHC = 2500.      (E) BHC =      LHCUPEND= 298.0      (E
LHCLOBND= 273.0      (E) SURFTENS= 0.4010E-01      SFTNTMP= 291.2      INTFTENS= 0.2000E-01      INTFTMP= 293.0      (E
SOLUBPNT= 2.800      SOLUBTMP= 290.9      A =            B =            AVP = 10.13
BVP = 2425.          CVP = 0.4004E-01      VPUPRND= 393.2      VPLWRBND= 263.2      AVCP =
BVCP =              CVCP =              DVCV =              VHCUPBND=      VHCLOBND=
HTFUSION=            LHTVAPOR=            HTCOMSTN=      HTSOLUTN=
HTREACTN=            HTPOLYMR=            LOFLMLIM=      UPFLMLIN=      BURNRATE=
TOXINHAL= 1.000      INHALCNC=            INHALTME=      LOTOXLIN= 0.5000E-04      UPTOXLIN= 0.5000E-03
LATETOX =            ABFLMTMP=            MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DSL CHEMNAME = DIMETHYL SULFIDE PATHCODE = A P Q T U V W

MOLECW = 62.10 NBP = 310.0 NFP = 175.0 CRITTEMP = 502.0 CRITPRES = 0.5690E+07

DENSITY = 850.0 DENSTEMP = 293.1 SHPSTATE=L ARHO = 1198. BRHO = -1.200

CRHO = 0.0000E+00 LDUPRND = 353.1 LDWRSND = 273.1 LOVISPNT = 0.2890E-03 LOVISTMP = 293.1

AVIS = -10.66 BVIS = 736.0 LVUPRND = 303.1 LVLWRBND = 253.1 LQTHRCND = 0.1279

LTHCNTMP = 293.1 ACON = 0.2814 BCON = -0.5234E-03 LTCUPBND = 313.1 LTCLOBND = 273.1

LQHTCPPT = 1867. LQHTCPTM = 293.1 AHC = 1476. EHC = 1.340 LHCUPBND = 353.1

LHCLOBND = 273.1 SURFTENS = 0.2650E-01 SFTNTMP = 284.1 INTFTENS = 0.3000E-01(E) INTFTTMP = 293.1

SOLUBPNT = 2.000 SOLUBTMP = 298.1 A = B = AVP = 9.828

BVP = 1495. CVP = -0.1500 VPUPRND = 323.1 VPLWRBND = 223.1 AVCP = 0.3336E+05

BVCP = 125.6 CVCP = 0.0000E+00 DVCP = 0.0000E+00 VHCUPBND = 600.0 VHCLOBND = 250.0

HTFUSION = LHTVAPOR = 0.4520E+06 HTCOMBNTN = -0.3070E+08 HTDECOMP = HTSOLUTN =

HTREACTN = HTPOLYMR = LOFLMLIM = 2.200 UPFLMLIM = 19.70 BURNRATE = 0.8016E-04

TOXINHAL = INHALCNC = INHALTME = LOTOXLIM = 0.5000E-03 UPTOXLIM = 0.5000E-02

LATETOX = ABFLMTMP = MOLRATIO = AIRFUEL = FLMETEMP =

MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DSM  CHEMNAME = DODECYL SULFATE, MAGNESIUM SALT      PATHCODE = A  P
MOLEWT = 555.0      NBP =      NFP =
DENSITY = 1040.      DENSTEMP= 293.1      SHPSTATE=L
CRHO =      LDUPRBND=      BVIS =      LVUPRBND=
LTHCNTMP=      ACON =      LQHTCPTM=      SURFTENS=
LHCLOBND=      SOLUBTMP=      CVP =      CVCV =
BVP =      BVCV =      LHTVAPOR=      HTPOLYMR=
HTFUSION=      TOXINHAL=      LATETOX =      MOLFRAC =
CRITPRES=      BRHO =      LOVISTMP= 298.1
CRITTEMP=      ARHO =      LOVISPT= 0.5000E-01
LTHRCND=      LTCLOBND=      LHCUPBND=
INTFTTMP=      AVP =      AVCP =
VHCLOBND=      HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```
DSR      CHEMNAME = DISTILLATE:STRAIGHT RUN
```

PATHCODE	A	T	U	V	W
----------	---	---	---	---	---

CHEMNAME = DISTILLATE:STRAIGHT RUN									
PATHCODE = A T U V W									
MOLECW	W	NBP	=	347.5	(E)	NFP	=	CRITTEMP=	
DENSITY	=	710.0	(E)	DENSTEMP=		288.2		SHPSSTATE=L	
CRHO	=	0.0000E+00	(E)	LDUPRND=		353.0	(E)	LDLWRBND=	273.0
AVIS	=	-11.00	(E)	BVIS	=	943.0	(E)	LVUPRND=	353.0
LTHCNTMP=		293.0	(E)	ACON	=	0.1930	(E)	BCON	= -0.2300E-03
LOHTCPT=		2181.	(E)	LOHTCPT=		293.0	(E)	AHC	= 1250.
LHCLOBND=		273.0	(E)	SURFTENS=		0.2100E-01	(E)	SFTNTMP=	293.2
SOLUBPNT=				SOLUBTMP=			A	=	B
BVP	=	1268.	(E)	CVP	=	-56.10	(E)	VPUPRND=	403.0
BVCP	=	645.9	(E)	CVCP	=	-0.2660	(E)	DVCP	= 0.0000E+00
HTFUSION=				LHTVAPOR=		0.2973E+06	(E)	HTCOMB3TN=	-0.4354E+08
HTREACTN=				HTPOLYMR=				LOFLMLIM=	1.100
TOXINHAL=				INHALCNC=		500.0		INHALTME=	1800.
LATETOX	=			ABFLMTMP=				MOLRATIO=	
MOLFRAC	=								

MOLECWT =	444.0	NBP =	428.0	CRITPRES=
DENSITY =	1100.	DENSTEMP=	293.1	BRHO =
CRHO =		LDUPRND=		LQVISTMP=
AVIS =		BVIS =		LQTHRCND=
LTHCNTMP=		ACON =		LTCLOBND=
LQHTCPPT=		LQHTCPTM=		LHCUPBND=
LHCLOBND=		SURFTENS=		INTFTMP=
SOLUBPNT=	1.500	SOLUBTMP=	303.1	AVP =
BVP =		CVP =		AVCP =
BVCP =		CVCP =		VHCLOBND=
HTFUSION=		LHTVAPOR=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		BURNRATE=
TOXINHAL=		INHALCNC=		UPTOXLIM=
LATETOX =		ABFLMTMP=		FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DST CHEMNAME = DODECYL SULFATE, TRIETHANOLAMINE SALT PATHCODE = A P

MOLEWT = 415.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1100.	(E) DENSITY = 293.1	SHPSATE = L	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCHMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DTC      CHEMNAME = DODECYLTRICHLOROSILANE      PATHCODE = A  0

MOLECWT = 303.7      NBP      = 422.0      (E) NFP      =
DENSITY = 1030.      DENSTEMP= 293.1      SHSTATE=L
CRHO     = 0.0000E+00(E) LDUPREND= 303.1      LDLPBND= 283.1      LOVISPT=
AVIS     =          BVIS     =          LVUPRBND=          LVLWRBND=
LTHCNTWP= 293.1      ACON     = 0.1512      (E) BCON     = 0.0000E+00(E) LTCUPBND= 303.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC      = 656.7      (E) BHC      = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS=          SFTNTEMP=          INTFTENS=          INTFTIMP=
SOLUBPNT=          SOLUBTMP=          A      =          B      =          AVP      =
BVP      =          CVP      =          VPUPRBND=          VPLWRBND=          AVCP      =
BVCP     =          CVCP     =          DVCP     =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOVSTN= -0.2600E+08(E) HTDECOVP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLYLMIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM= 0.5000E-04
LATETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =          FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DTH      CHEMNAME = DOWTHERM
MOLECWt = 166.0      NBP      = 530.0      NFP      = 285.0      CRITTEMP= 773.0      CRITPRES= 0.3100E+07
DENSITY = 1060.      DENSTEMP= 294.2      SHPSTATE=L      ARHO      = 1295.      BRHO      = -0.8000
CRHO      = 0.0000E+00      LDUPREND= 373.2      LDLPREND= 285.2      LOVISPNT= 0.3240E+02      LQVISTMP= 298.2
AVIS      = -11.60      BVIS      = 1749.      LVUPREND= 373.2      LVLWRBND= 293.2      LQTHRCND= 0.1407
LTHCNTMP= 293.2      ACON      = 0.1748      BCON      = -0.1163E-03      LTCLOBND= 288.2
LQHTCPPT= 1574.      LQHTCPTM= 293.2      AHC      = 753.6      EHC      = 2.805      LHCUPBND= 403.2
LHCLOBND= 285.2      SURFTENS= 0.4010E-01      SFINTEMP= 293.2      INTFTENS= 0.3000E-01(E)      INTFTIMP= 293.0      (E)
SOLUBPNT= 0.1380E-02      SOLUBTMP= 288.7      A      =      B      =      AVP      = 10.90
BVP      = 3073.      CVP      = 0.4004E-01      VPUPREND= 473.2      VPLWRBND= 323.2      AVCP      = 0.5778E+05
BVCP      = 452.2      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 300.0
HTFUSION= 0.9797E+05      LHTVAPOR=      HTCOMSTN= -0.3256E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.5000      UPFLMLIM= 6.200      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

DTM CHEMNAME = 4,4P-DICHLORO-ALPHA-TRICHLORO-METHYLBEN- PATHCODE = II

MOLECW = 470.5	NBP = 412.0	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1100.	(E) DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBN =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBN =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	S =	AVP =
BVP =	CVP =	VPUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCCMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.100	UPFLMLIM = 7.000	BURNRATE = 0.9686E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DTN      CHEMNAME = DEMETON
        MOLECW = 258.0      NBP = 413.0      (E) NFP =
        DENSITY = 1100.     DENSTEMP = 293.1  SHPSTATE=L
        CRHO = 0.0000E+00(E) LDUPRND = 298.1  LDLWPSND = 283.1
        AVIS =
        LTHCNTMP =
        LQHTCPPT =
        LHCLOBND =
        SOLUBPNT =
        BVP =
        BVCP =
        HTFUSION =
        HTREACTN =
        TOXINHAL = 0.8700E-02  INHALCNC = 0.4300E-01  LOFLMLIM = 1.000
        LATETOX =
        MOLFRAC =
        PATHCODE = A X Y
        CRITPRES =
        (E) BRHO = -1.000 (E)
        LQVISTMP =
        LQTHRCND =
        LTCLOBND =
        LHCUPEND =
        INTFTIMP =
        AVP =
        AVCP =
        VHCLOBND =
        HTSOLUTN =
        BURNRATE = 0.9686E-04
        UPTOXLIM = 0.5000E-04(E)
        FLMETEMP =
        CRITTEMP =
        ARHO = 1373.
        LQVISPT =
        LVLWRBND =
        LTCUPBND =
        BHC =
        INTFTENS =
        B =
        VPLWRBND =
        VHCUPBND =
        HTDECOMP =
        UPFLMLIM = 5.300
        LOTOXLIM =
        AIRFUEL =
        SFTNTEMP =
        A =
        VPUPRND =
        DVCP =
        HTCONSTN =
        LOFLMLIM = 1.000
        INHALTME = 1800.
        MOLRATIO =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
DTT  CHEMNAME = 2,4-DINITROTOLUENE      PATHCODE = A  X  Y  II
MOLECWT = 182.1      NBP = 343.0      CRITTEMP=
DENSITY = 1320.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
CRHO =      LDUPREND=      LDWRBND=      LQVISPT=      LQTHRCND=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LTCLOBND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LHCUPBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      INTFTIMP=
LHCLOBND=      SURFTENS=      SFTNTIMP=      INTFTENS=
SOLUBPNT= 0.2700E-01      SOLUBTMP= 295.1      A = -0.5002E-01      B = 0.2600E-03      AVP =
BVP =      CVP =      VPUPRND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.3900E+06      HTCOM3TN= -0.1930E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      HTDECOMP=      BURNRATE=
TOXINHAL= 0.1850      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM= 0.5000E-04(E
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

MOLECWT =	304.4	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	1117.	=	DENSTEMP=	293.1	SHFSTATE=S	ARHO =	1410.	(E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	=	LDUPRND=	303.1	LDLWRND=	283.1	LQVISPT=	0.3200E-02(E) LOVISTMP= 293.1
AVIS =	-12.91	=	(E) BVIS	=	(E) LVUPRND=	298.1	LVLWRND=	283.1
LTHCNTMP=	288.1	=	ACON	=	(E) BCON	=	0.0000E+00(E) LTCUPRND=	298.1
LQHTCPT=	1675.	=	(E) LQHTCPT=	288.1	AHC	=	(E) BHC	=
LHCLOBND=	283.1	=	SURFTENS=	0.3500E-01(E) SFTNTMP=	293.1	INTFTENS=	0.4000E-01(E) INTFTTMP=	293.1
SOLUBNT=	0.4000E-02	=	SOLUBTMP=	293.1	A	=	B	=
BVP	=	4075.	CVP	=	-0.1500	VPUPRND=	353.1	AVCP =
BVCP	=		CVCP	=		DVCP	=	VHCLOBND=
HTFUSION=			LHTVAPOR=			HTCOMBTN=	-0.2700E+08(E) HTDECOMP=	HTSOLUTN=
HTREACTN=			HTPOLYMR=			LOFLMLIM=		BURNRATE=
TOXINHAL=			INHALCNC=			INHALTWE=		UPTOXLIM=
LATETOX	=		ABFLMTMP=			MOLRATIO=		FLMETEMP=
MOLFRAC =								

DZP	CHEMNAME = DI-(P-CHLOROBENZOYL) PEROXIDE	PATHCODE = II
MOLECWt =	311.1	NBP =
DENSITY =	1100.	(E) DENSTEMP= 293.1
CRHO =		LDUPRBD=
AVIS =		BVIS =
LTHCNTMP=		ACON =
LQHTCPPT=		LQHTCPTM=
LHCLOBND=		SURFTENS=
SOLUBPNT=		SOLUBTMP=
BVP =		CVP =
BVCP =		CVCP =
HTFUSION=		LHTVAPOR=
HTREACTN=		HTPOLYMR=
TOXINHAL=		INHLCNC=
LARETOX =		ABFLMTMP=
MOLFRAC =		
		NFP =
		SHPSTATE=S
		LDLWRBND=
		LVUPRBD=
		BCON =
		AHC =
		SFTNTMP=
		A =
		VPUPRBD=
		DVCP =
		HTCOMBTN= -0.2100E+08(E)
		LOFLMLIN=
		INHLMME=
		MOLRATIO=
CRITPRES=		CRITTEMP=
BRHO =		ARHO =
LQVISTMP=		LQVISPNT=
LQTHRCND=		LVLWRBND=
LTCLOBND=		LTCUPBND=
LHCUPBND=		BHC =
INTFTTMP=		INTFTENS=
AVP =		B =
AVCP =		VPLWRBND=
VHCLOBND=		VHCUPBND=
HTSOLUTN=		
BURNRATE=		UPFLMLIN=
UPTOXLIM=		LOTOXLIM=
FLMETEMP=		AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EAA CHEMNAME = ETHYL ACETOACETATE

PATHCODE = A P Q

MOLECWT = 130.1	NBP = 457.0	NFP = 193.0	(E) CRITTEMP =	CRITPRES =	
DENSITY = 1028.	DENSTEMP = 293.1	SHPSSTATE=L	ARHO =	BRHO =	-1.000
CRHO = 0.0000E+00	LDUPRBND = 303.1	LDLWRBND = 273.1	LQVISPNT =	LQVISTMP =	293.1
AVIS = -20.01	(E) BVIS = 4000.	(E) LVUPRBND = 298.1	LVLWRBND =	LQTHRCND =	0.1512
LTHCNTMP = 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00	(E) LTCUPBND =	LTCLOBND =	278.1
LQHTCPPT = 1926.	LQHTCPTM = 298.1	AHC = 428.0	BHC =	LHCUPEND =	323.1
LHCLOBND = 273.1	SURFTENS = 0.3250E-01	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	293.1
SOLUBPNT = 13.00	SOLUBTMP = 290.1	A =	B =	AVP =	9.675
BVP = 2134.	CVP = -0.1500	VPUPRBND = 458.1	VPLWRBND =	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR = 0.3800E+06	HTCONSTN = -0.2173E+08	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.400	UPFLMLIM =	BURNRATE =	0.4008E-04
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	0.5000E-02
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAC  CHEMNAME = ETHYL ACRYLATE
      PATHCODE = A P Q T U Z
      MOLEWT = 100.1 NBP = 372.8 NFP = 201.0 CRITTEMP= 552.0 CRITPRES= 0.3700E+07
      DENSITY = 923.0 DENSTEMP= 293.2 SHPSTATE=L ARHO = 1246. BRHO = -1.100
      CRHO = 0.0000E+00 LDUPRBND= 313.2 LDLWRBND= 273.2 LQVISFNT= 0.5800E-03 LQVISTMP= 293.2
      AVIS = -11.29 BVIS = 1121. LVUPRBND= 313.2 LVLWRBND= 273.2 LQTHRCND= 0.1663
      LTHCNTMP= 293.2 ACON = 0.3027 BCON = -0.4652E-03 LTCUPBND= 373.2 LTCLOBND= 253.2
      LQHTCPPT= 1892. LQHTCPTM= 293.2 AHC = 1156. BHC = 2.512 LHCUPBND= 333.2
      LHCLOBND= 273.2 SURFTENS= 0.2500E-01 SFTINTMP= 293.2 INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E
      SOLUBPNT= 2.000 SOLUBTMP= 293.2 A = B = AVP = 10.50
      BVP = 2032. CVP = 0.4004E-01 VPUPRBND= 373.2 VPLWRBND= 273.2 AVCP = 0.1683E+05
      BVCP = 368.4 CVCP = -0.1382 DVCP = -0.5862E-05 VHCUPBND= 600.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.3471E+06 HTCOMBNTN= -0.2763E+08 HTDECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= -0.7787E+06 LOFLMLIM= 1.800 UPFLMLIM= 9.500 BURNRATE= 0.7167E-04
      TOXINHAL= 25.00 INHALCNC= 50.00 INHALTME= 900.0 LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAD  CHEMNAME = ETHYLALUMINUM DICHLORIDE      PATHCODE = A  O  Z
MOLEWT = 130.0  NBP = 467.0  CRITTEMP=
DENSITY = 1227.  DENSTEMP= 308.1  SHPSTATE=L  ARHO = 1690.  CRITPRES=
CRHO = 0.0000E+00  LDUPEND= 353.1  LDLWRBND= 308.1  LQVISPNT=  LQVISTMP=
AVIS = -11.72  BVIS = 1700.  LVUPBND= 353.1  LVLWRBND= 308.1  LQTHRCND= 0.1512  (E
LTHCNTMP= 308.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 318.1  LTCLOBND= 308.1
LQHTCPTP= 1926.  (E) LQHTCPTM= 308.1  AHC = 1926.  (E) BHC = 0.0000E+00(E) LHCUPBND= 318.1
LHCLOBND= 308.1  SURFTENS= 0.3000E-01(E) SFTNTMP= 308.1  INTFTERS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.39
BVP = 2520.  CVP = -0.1500  VPUPBND= 453.1  VPLWRBND= 323.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTCONSTN= -0.1300E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLWLIM=  UPFLWLIM=  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM=  UPTOXLIM=
LARETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAI  CHEMNAME = 2-ETHYLHEXYL ACRYLATE,INHIBITED      PATHCODE = A   T   U   Z
MOLEWT = 184.2      NBP = 487.0      NFP = 183.0      CRITTEMP=
DENSITY = 885.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1149.      CRITPRES=
CRHO = 0.0000E+00      LDUPRND= 323.1      LDLPBND= 263.1      LQVISPNT= 0.1800E-02      LQVISTMP= 293.1      BRHO = -0.9000
AVIS = -12.75      BVIS = 1885.      LVUPRND= 323.1      LVLWRBND= 263.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E)      BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOSND= 278.1      LTCLOSND= 278.1
LQHTCPTM= 1758.      LQHTCPTM= 293.1      AHC = 531.1      BHC = 4.187      LHCUPBND= 323.1      LHCUPBND= 323.1
LHCLOSND= 273.1      SURFTENS= 0.2600E-01(E)      SFTNTEMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTMP= 293.1      INTFTMP= 293.1
SOLUBPNT= 0.3400      SOLUBTMP= 293.1      A = 513.1      B = 10.49      AVP = 303.1      AVCP = 303.1      AVCP = 303.1
BVP = 2672.      CVP = -0.1500      VPUPRND= 513.1      VPLWRBND= 303.1      VHCLOBND= 303.1      VHCLOBND= 303.1
BVCP = 2672.      CVCP = 2672.      DVCP = 2672.      VHCUPBND= 303.1      VHCUPBND= 303.1      VHCUPBND= 303.1
HTFUSION= 2672.      LHTVAPOR= 0.2600E+06      HTCOWBTN= -0.3600E+08      HTSOLUTN= 303.1      HTSOLUTN= 303.1      HTSOLUTN= 303.1
HTREACTN= 2672.      HTPOLYMR= -0.3300E+06      LOFLWLIM= 0.8000      UPFLMLIM= 6.400      BURNRATE= 0.7682E-04      BURNRATE= 0.7682E-04
TOXINHAL= 2672.      INHALCNC= 2672.      INHALTME= 2672.      LOTCXLIW= 0.5000E-02      UPTOXLIM= 0.1500E-01      UPTOXLIM= 0.1500E-01
LATETOX = 2672.      ABFLMTMP= 2672.      MOLRATIO= 2672.      AIRFUEL = 2672.      FLMETEMP= 2672.      FLMETEMP= 2672.
MOLFRAC = 2672.

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAL  CHEMNAME = ETHYL ALCOHOL
      MOLEWT = 46.07  NBP = 351.5  PATHCODE = A  P  Q  R  S
      DENSITY = 790.0  DENSTEMP = 293.2  SHPSTATE=L  CRITTEMP = 516.3  CRITPRES = 0.6380E+07
      CRHO = 0.0000E+00  LDUPREND = 353.2  LDLEWEND = 273.2  LDVISPNT = 1038.  BRHO = -0.8500
      AVIS =  BVIS =  LVUPREND =  LVLEWEND =  LQVISTMP =  LQTHRCND =  LQVISTMP =
      LTHCNTMP =  ACON =  BCCN =  LTCUPEND =  LTCUPEND =  LTCUPEND =  LTCUPEND =  LTCUPEND =
      LQHTCPPT = 2428.  LQHTCPTM = 293.2  AHC = -390.5  EHC = 9.630  LHCUPEND = 323.2
      LHCLOBND = 273.2  SURFTENS =  SFTNTEMP =  INTFTENS =  INTFTIMP =  INTFTIMP =
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 10.34
      BVP = 1652.  CVP = -42.16  VPUPREND = 373.2  VPLWREND = 273.2  AVCP = 0.2123E+05
      BVCP = 205.2  CVCP = -0.9630E-01  DVCP = 0.1800E-04  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION = 0.1080E+06  LHTVAPOR = 0.8374E+06  HTCOMSTN = -0.2690E+08  HTSOLUTN = -0.2303E+06
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 3.300  UPFLMLIM = 19.00  BURNRATE = 0.6500E-04
      TOXINHAL = 1000.  INHALCNC = 5000.  INHALTME = 900.0  LOTOXLIM = 0.5000E-02  UPTOXLIM = 0.1500E-01
      LAETOX =  ABFLMTMP =  MOLRATIO =  FLMETEMP =
      MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EAS  CHEMNAME = ETHYLALUMINUM SESQUICHLORIDE      PATHCODE = A  0  Z
MOLEWT = 247.5      NBP = 477.0      NFP = 253.0      CRITTEMP=
DENSITY = 1092.      DENSTEMP= 298.1      SHPSTATE=L      ARHO = 1479.      CRITPRES=
CRHO = 0.0000E+00      LDUPRND= 363.1      LDLWRND= 273.1      LQVISPT= 0.1850E-02      LQVISTMP= 298.1      BRHO = -1.300
AVIS = -11.73      BVIS = 1620.      LVUPRND= 343.1      LVLWRBND= 283.1      LQVISTMP= 298.1      LQVISTMP= 298.1
LTHCNTMP= 293.1      ACON = 0.1512 (E)      BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LQVISTMP= 298.1      LQVISTMP= 298.1
LOHTCPPT= 1926.      (E) LOHTCPTM= 293.1      AHC = 698.6 (E)      BHC = 4.187 (E)      LHCUPBND= 303.1      LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.3200E-01(E)      SFTNTMP= 293.1      INTFTENS= 293.1      INTFTTMP= 293.1      INTFTTMP= 293.1
SOLUBPNT= 273.1      SOLUBTMP= 273.1      A = 273.1      B = 273.1      AVP = 10.00      AVCP = 10.00
BVP = 2397.      CVP = -0.1500      VPUPRND= 453.1      VPLWRBND= 323.1      VHCLOBND= 323.1      VHCLOBND= 323.1
BVCP = 2397.      CVCP = 2397.      DVCP = 2397.      HTDECOMP= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
HTFUSION= 2397.      LHTVAPOR= 2397.      HTDECOMP= 2397.      HTDECOMP= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
HTREACTN= 2397.      HTPOLYMR= 2397.      LHTVAPOR= 2397.      LHTVAPOR= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
TOXINHAL= 2397.      INHALCNC= 2397.      INHALCNC= 2397.      INHALCNC= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
LATETOX = 2397.      ABFLMTMP= 2397.      ABFLMTMP= 2397.      ABFLMTMP= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
MOLFRAC = 2397.      MOLRATIO= 2397.      MOLRATIO= 2397.      MOLRATIO= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
UPFLWLIM= 2397.      UPFLWLIM= 2397.      UPFLWLIM= 2397.      UPFLWLIM= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
LOTOXLIM= 2397.      LOTOXLIM= 2397.      LOTOXLIM= 2397.      LOTOXLIM= 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
AIRFUEL = 2397.      AIRFUEL = 2397.      AIRFUEL = 2397.      AIRFUEL = 2397.      HTSOLUTN= 2397.      HTSOLUTN= 2397.
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EBR  CHEMNAME = ETHYL BUTYRATE      PATHCODE = A  T  U
MOLEWT = 116.2  NBP = 394.0  NFP = 180.0  CRITTEMP= 566.0  CRITPRES= 0.3100E+07
DENSITY = 879.0  DENSTEMP= 293.1  SHPSSTATE=L  ARHO = 1154.  BRHO = -1.000
CRHO = 0.0000E+00  LDUPRND= 292.1  LDLWRND= 273.1  LOVISINT= 0.6670E-03  LOVISINTP= 293.1
AVIS = -11.17  BVIS = 1130.  LVUPRND= 323.1  LVLWRND= 283.1  LQTHRCND= 0.1651
LTHCNTMP= 297.1  ACON = 0.1651  BCON = 0.0000E+00  LTCUPBND= 298.1  LTCLOBND= 283.1
LQHTCPPT= 1926.  LQHTCPTM= 293.1  AHC = 1926.  (E) SHC = 0.0000E+00(E)  LHCUPBND= 298.1
LHCLOBND= 283.1  SURFTENS= 0.2450E-01  SFTNTEMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 0.6800  SOLUBTMP= 298.1  A =  =  B =  AVP = 9.073
BVP = 1358.  CVP = -60.15  VPUPRND= 435.1  VPLWRND= 285.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.3000E+06  HTCONSTN= -0.3060E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE= 0.7882E-04
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLM=  UPTOXLM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EBT CHEMNAME = ETHYL BUTANOL PATHCODE = A T U

MOLEWT = 102.2	NBP = 419.0	NFP = 159.0	CRITTEMP=	CRITPRES=
DENSITY = 834.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1127.	BRHO = +1.0000
CRHO = 0.0000E+00	LDUPREND= 303.2	LDLWRBND= 273.2	LOVISPNT= 0.7500E-03(E)	LOVISTMP= 293.0 (E)
AVIS = -11.70 (E)	BVIS = 1320. (E)	LVUPRBNBND= 303.0 (E)	LVLWRBND= 283.0 (E)	LOTHRCND= 0.1600 (E)
LTHCNTMP= 293.0 (E)	ACON = 0.1600 (E)	BCON = 0.0000E+00(E)	LTCUPEND= 303.0 (E)	LTCLOBND= 283.0 (E)
LQHTCPPT= 2260. (E)	LQHTCPTM= 293.0 (E)	AHC = 2260. (E)	BHC = 0.0000E+00(E)	LHCUPEND= 303.0 (E)
LHCLOBND= 273.0 (E)	SURFTENS= 0.2430E-01	SFTNTMP= 298.2	INTFTENS= 0.4000E-01(E)	INTFTTMP= 293.0 (E)
SOLUBPNT= 0.4300	SOLUBTMP= 293.2	A =	B =	AVP = 11.71
BVP = 2810.	CVP = 0.4004E-01	VPUPRBNBND= 423.2	VPLWRBND= 288.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR= 0.4559E+06	HTCOMBNTN= -0.3870E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM= 1.900	UPFLMLIM= 8.800	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLNTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ECA  CHEMNAME = ETHYL CHLOROACETATE      PATHCODE = A  X  Y
MOLEWT = 122.6      NBP = 416.0      NFP = 247.0      CRITTEMP=
DENSITY = 1150.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 2469.      BRHO = -4.500
CRHO = 0.0000E+00      LDUPREND= 303.1      (E) LDWRBND= 273.1      LOVISPT= 0.3200E-02(E) LQVISTMP= 293.1
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPREND= 298.1      LVLWRBND= 283.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLEND= 283.1
LQHTCPPT= 1717.      (E) LQHTCPTM= 293.1      AHC = 489.2      (E) BHC = 4.187      (E) LHCUPBND= 313.1
LHCLOBND= 273.1      SURFTENS= 0.2600E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.2400E-01(E) INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.53
BVP = 2300.      CVP = -0.1500      VPUPREND= 423.1      VPLWRBND= 308.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTV4POR= 0.3600E+06      HTCOVSTN= -0.1680E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.3841E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN=      UPTOXLIM= 0.5000E-04(E)
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ECF  CHEMNAME = ETHYL CHLOROFORMATE      PATHCODE = A  O  X  Y
MOLEWT = 108.5      NBP = 367.0      NFP = 192.0      CRITTEMP=
DENSITY = 1135.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1633.      CRITPRES=
CRHO = 0.0000E+00      LOUPRND= 313.1      LDLWRND= 273.1      LQVISPNT= 0.3200E-02(E) LQVISTMP= 293.1      BRHO = -1.700
AVIS = -12.91 (E) BVIS = 2100.      (E) LVUPRND= 298.1      LVLWRBND= 278.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 278.1
LOHTCPPT= 1758.      (E) LOHTCPTM= 293.1      AHC = 531.1 (E) EHC = 4.187 (E) LHCUPBND= 298.1
LHCLOBND= 278.1      SURFTENS= 0.2750E-01      SFTNTMP= 288.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 13.94
BVP = 3280.      CVP = -0.1500      VPUPRND= 373.1      VPLWRBND= 283.1      AVCP = 0.2849E+05(E)
BVCP = 233.1 (E) CVCP = -0.1191 (E) DVCP = 0.5543E-04(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3300E+06(E) HTCON3TN= -0.1600E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.4342E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ECH  CHEMNAME = ETHYLENE CHLOROHYDRIN      PATHCODE = A  P  Q
MOLEWT = 80.51      NBP = 401.9      CRITPRES=
DENSITY = 1197.      DENSTEMP= 293.1      SHPSSTATE=L      ARHO = 1519.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPREND= 323.1      LDLMSEND= 273.1      LOVISPT= 0.3910E-02      LOVISTMP= 288.1
AVIS = -13.11      BVIS = 2180.      LVUPREND= 308.1      LVLWRBD= 283.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E)      BCON = 0.0000E+00      (E)      LTCUPEND= 293.1      LTCLOBND= 283.1
LOHTCPPT= 1926.      (E)      LOHTCPTM= 293.1      AHC = 698.6      (E)      BMC = 4.187      (E)      LHCUPEND= 298.1
LHCLOBND= 278.1      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBTMP=      A =      B =      AVP =      10.88
BVP = 2360.      CVP = -0.1500      VPUPREND= 403.1      VPLWRBD= 283.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPEND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.5150E+06      HTCONSTN= -0.1508E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 4.900      UPFLMLIM= 15.90      BURNRATE= 0.2839E-04
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ECL CHEMNAME = ETHYL CHLORIDE PATHCODE = A B C D E F G
 MOLECWT = 64.52 NBP = 285.4 NFP = 137.0 CRITTEMP = 460.4 CRITPRES = 0.5227E+07
 DENSITY = 906.0 DENSTEMP = 285.4 SHPSTATE=L ARHO = 1362. BRHO = -1.600
 CRHO = 0.0000E+00 LDUPREND = 333.2 LDLPREND = 285.4 LOVISPAT = 0.3000E-03 LQVISTMP = 285.4
 AVIS = -10.49 BVIS = 677.0 LVUPREND = 303.2 LVLWREND = 263.2 LQTHRCND =
 LTHCNTMP = ACON = BCON = LTCUPREND = LTCLOBND =
 LQHTCPPT = 1742. LQHTCPTM = 293.2 AHC = -1204. EHC = 10.05 LHCUPREND = 323.2
 LHCLOBND = 243.2 SURFTENS = 0.1950E-01 SFTNTEMP = 293.2 INTFTENS = 0.4000E-01(E) INTFTMP = 273.0 (E)
 SOLUBPNT = 0.6000 SOLUBTMP = 293.2 A = B = AVP = 9.816
 BVP = 1375. CVP = 0.4004E-01 VPUPREND = 303.2 VPLAREND = 233.2 AVCP = 9127.
 BVCP = 204.3 CVCP = -0.8374E-01 DVCP = 0.0000E+00 VHCUPREND = 600.0 VHCLOBND = 250.0
 HTFUSION = LHTVAPOR = 0.3793E+06 HTCCOBTN = -0.1884E+08 HTDECOMP = HTSOLUTN =
 HTREACTN = HTPOLYMR = LOFLMLIM = 3.600 UPFLMLIM = 12.00 BURNRATE = 0.6333E-04
 TOXINHAL = 1000. INHALCNC = INHALTME = LOTCKLIN = UPTOXLIM =
 LATETOX = ABFLMTMP = MOLRATIO = 0.8000 (E) AIRFUEL = 6.383 (E) FLMETEMP =
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ECS  CHEMNAME = ETHYLDICHLOROSILANE      PATHCODE = A  0
MOLEWT = 129.1      NBP = 347.0
DENSITY = 1095      DENSTEMP= 298.1      SHPSSTATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWREND= 283.1      LOVISPT= 0.5700E-02(E) LOVISTMP= 293.1      (E)
AVIS = -18.81      (E) BVIS = 4000      (E) LVUPREND= 298.1      LVLKREND= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPREND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1926      (E) LOHTCPTM= 293.1      AHC = 698.6      (E) EHC = 4.187      (E) LHCUPEND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.3000E-01(E) SFTNTMP= 293.1      INTFTENS= 0      (E) INTFTTMP= 0
SOLUBPNT= 0      (E) SOLUBTMP= 0      (E) A = 0      (E) B = 0      (E) AVP = 9.752
BVP = 1648      CVP = -0.1500      VPUPREND= 353.1      VPLWRBND= 283.1      AVCP = 0
BVCP = 0      CVCP = 0      DVCP = 0      VHCUPBND= 0      VHCLOBND= 0
HTFUSION= 0      LHTVAPOR= 0.2600E+06(E) HTCCNSTN= -0.1500E+08(E) HTDECOMP= 0      HTSOLUTN= 0
HTREACTN= 0      HTPOLYMR= 0      LOFLTLIM= 2.900      UPFLMLIN= 0      BURNRATE= 0.5344E-04
TOXINHAL= 0      INHALCNC= 0      INHALTME= 0      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX = 0      ABFLMTMP= 0      MOLRATIO= 0      AIRFUEL = 0      FLMETEMP= 0
MOLFRAC = 0

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EDA  CHEMNAME = ETHYLENEDIAMINE          PATHCODE = A  P  Q
MOLECW = 60.10  NBP = 390.0  CRITPRES = 0.6400E+07
DENSITY = 909.0  DENSTEMP = 293.2  BRHO = -1.020
CRHO = 0.0000E+00  LDUPREND = 373.2  LOVISTMP =
AVIS =  BVIS =  LVUPRSND = 284.2  LQTHRCND =
LTHCNTMP =  ACON =  LOHTCPTM = 293.2  LTCLOBND =
LOHTCPPT = 2901.  SURFTENS =  SFTNTEMP =  SHC = 3.349  LHCUPBND = 393.2
LHCLOBND = 284.2  SOLUBTMP =  A =  B =  INTFTTMP =
SOLUBPNT =  CVP = -72.16  VPUPRSND = 423.2  VPLWRBND = 288.2  AVCP = 0.3827E+05
BVP = 1350.  CVCP = -0.4187E-01  DVCP = -0.3936E-04  VHCLOBND = 250.0
HTFUSION =  LHTVAPOR = 0.6699E+06  HTCONSTN = -0.2860E+08  HTSOLUTN = -0.2000E+05(E
HTREACTN =  HTPOLYMR =  LOFLMLIM = 5.800  UPFLMLIM = 11.10  BURNRATE = 0.3667E-04
TOXINHAL = 10.00  INHALCNC = 20.00  INHALTME = 300.0  LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
LATETOX =  ABFLTMP =  MOLRATIO =  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EDB  CHEMNAME = ETHYLENE DIBROMIDE          PATHCODE = A  X
MOLEWT = 187.9      NBP = 404.0      NFP = 283.0
DENSITY = 2180.     DENSTEMP = 293.2  SHPSTATE=L
CRHO = 0.0000E+00   LDUPREND = 323.2  LDLWRBND = 283.2
AVIS = -10.63      BVIS = 1248.     LVUPRSND = 373.2
LTHCNTMP =         ACON =          BCON =
LOHTCPT = 724.3    LOHTCPTN = 293.2  AHC = 601.6
LHCLOBND = 283.2   SURFTENS = 0.3875E-01 SFTNTEMP = 293.2
SOLUBNT = 0.2700   SOLUBTMP = 298.2  A =
BVP = 1989.        CVP = 0.4004E-01  VPUPRSND = 423.2
BVCP = 201.8       CVCP = -0.8792E-01 DVCP = 0.0000E+00
HTFUSION =         LHTVAPOR = 0.1909E+06 HTCONSTN =
HTREACTN =         HTPOLYMR =
TOXINHAL = 0.3580   INHALCNC =
LAFETOX =          ABFLMTMP =
MOLFRAC =          MOLRATIO =

CRITPRES =
BRHO = -0.2000
LQVISTMP = 293.2
LQTHRCND =
LTCLOBND =
LHCUPBND = 373.2
INTFTTMP = 293.2
AVP = 9.917
AVCP = 0.3287E+05
VHCLOBND = 250.0
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-04
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

*****
EDC  CHEMNAME = ETHYLENE DICHLORIDE      PATHCODE = A  X  Y
MOLECWT = 98.96      NBP = 356.7      NFP = 237.5      CRITTEMP= 561.0      CRITPRES= 0.5100E+07
DENSITY = 1253.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1603.      BRHO = -0.9219
CRHO = -0.9300E-03      LDUPRND= 353.2      LDWRBND= 273.2      LQVISPT= 0.8600E-03      LQVISTMP= 293.2
AVIS = -10.85      BVIS = 1110.      LVUPRND= 353.2      LVLWRBND= 273.2      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 1256.      LQHTCPTM= 293.2      AHC = 680.8      BHC = 1.968      LHCUPBND= 353.2
LHCLOBND= 253.2      SURFTENS= 0.3220E-01      SFTNTMP= 293.2      INTFTENS= 0.3000E-01(E)      INTFTMP= 298.0 (E)
SOLUBPNT= 0.8000      SOLUBTMP= 293.2      A =      B =      AVP = 10.25
BVP = 1859.      CVP = 0.4004E-01      VPUPRND= 313.2      VPLWRBND= 263.2      AVCP = 0.3433E+05
BVCP = 169.6      CVCP = -0.6280E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3195E+06      HTCOMSTN= -0.8000E+07(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 6.200      UPFLWLIM= 15.60      BURNRATE= 0.2500E-04(E)
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/53/19 PAGE380

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EDR	CHEMNAME = ENDRIN	PATHCODE = II	
MOLEWT =	380.9	NBP =	573.0
DENSITY =	1650.	DENSTMP =	298.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.1600E-04	SOLUBTMP =	296.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.5900E-02	INHALCNC =	0.2900E-01
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCO79TN =	
		LOFLMLIM =	1.100
		INHALTME =	1800.
		MOLRATIO =	
		UPFLMLIN =	7.000
		LOTOXLIM =	
		AIRFUEL =	
		HTSOLUTN =	
		BURNRATE =	0.6680E-04
		UPTOXLIM =	0.5000E-04(E
		FLMETEMP =	
		CRITPRES =	
		BRHO =	
		LQVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTIMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTDECOMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EDT CHEMNAME = ETHYLENEDIAMINE TETRACETIC ACID PATHCODE = II

MOLECW = 164.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 860.0	DENSTEMP = 293.2	SHPSSTATE = S	ARHO =	ARHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOSND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 0.5000	(E) SOLUBTMP = 298.2	A =	B =	AVP =
BVP =	CVP =	VPUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A
NL

5 OF 10
AD-A
034 607

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EEE  CHEMNAME = ETHYLENE GLYCOL DIETHYL ETHER      PATHCODE = A  P  Q  T  U
MOLEWT = 118.2      NEP = 395.0      NFP = 199.0      CRITTEMP=
DENSITY = 848.4      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1054.
CRHO = 0.0000E+00      LDUPREND= 303.1      LDWRBND= 273.1      LOVISPR.T= 0.8200E-03(E) LOVISTMP= 293.1
AVIS = -11.61      BVIS = 1320.      LVUPREND= 298.1      LVLWRBND= 283.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1758.      (E) LQHTCPTM= 293.1      AHC = 531.1 (E) BHC = 4.187 (E) LHCUPEND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBPNT= 2.700      SOLUBTMP= 293.1      A = 12.01
BVP = 2768.      CVP = -0.1500      VPUPREND= 398.1      VPLWRBND= 373.1      AVCP = 0.3554E+05(E)
BVCP = 536.4      (E) CVCP = -0.2338 (E) DVCP = 0.3014E-04(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4480E+06      HTCOMSTN= -0.3400E+08(E) HTDECOMP=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6847E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EET CHENAME = ETHYL ETHER

MOLEWT = 74.12	NBP = 307.8	NFP = 156.9	CRITTEMP = 466.7	CRITPRES = 0.3640E+07
DENSITY = 714.0	DENSTEMP = 293.2	SHPSSTATE = L	ARHO = 1001.	BRHO = -0.8378
CRHO = -0.4800E-03	LDUPREND = 313.2	LDLWREND = 193.2	LOVISPA = 0.2330E+03	LOVISIMP = 293.2
AVIS = -11.02	BVIS = 778.0	LVUPREND = 313.2	LVLWRBND = 233.2	LQTHRCND = 0.1256
LTHCNTMP = 293.2	ACON = 0.2077	BCON = -0.2791E-03	LTCUPBND = 313.2	LTCLOBND = 213.2
LQHTCPPT = 2345.	LQHTCPTM = 293.2	AHC = 118.5	BHC = 7.536	LHCUPBND = 353.2
LHCLOBND = 273.2	SURFTENS = 0.1700E-01	SFTNTENS = 293.2	INTFTENS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A = 89.58	B = 0.2800	AVP = 10.08
BVP = 1558.	CVP = 0.4004E-01	VPUPREND = 333.2	VPLWRBND = 213.2	AVCP = 0.3128E+05
BVCP = 288.3	CVCP = -0.5233E-01	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3555E+06	HTCOMSTN = -0.3384E+08	HTSOLUTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.850	UPFLMLIM = 36.50	BURNRATE = 0.1117E-03
TOXINHAL = 400.0	INHALCNC = 1000.	INHALTME = 1800.	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EFM  CHEMNAME = ETHYL FORMATE
      MOLEWT = 74.10      NBP = 327.4      PATHCODE = A P Q R S
      DENSITY = 922.0      DENSTEMP= 293.1      SHPSTATE=L      NFP = 194.0      CRITTEMP= 508.0      CRITPRES= 0.4730E+07
      CRHO = 0.0000E+00      LDUPRND= 313.1      LDWRBND= 253.1      LDWRBND= 253.1      LOVISPNT= 0.4000E-03      LOVISTMP= 293.1      BRHO = -1.400
      AVIS = -11.02      BVIS = 933.0      LVUPRND= 373.1      LVLRBND= 253.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512
      LTHCNTMP= 293.1      ACON = 0.3240      BCON = -0.5815E-03      LTCUPBND= 333.1      LTCLOBND= 273.1      LTCLOBND= 273.1
      LQHTCPPT= 1918.      LQHTCPTM= 293.1      AHC = 1304.      BHC = 2.093      LHCUPBND= 373.1      LHCUPBND= 373.1
      LHCLOBND= 253.1      SURFTENS= 0.2400E-01      SFTNTMP= 293.1      INTFTENS= 0.2800E-01(E)      INTFTMP= 293.1      INTFTMP= 293.1
      SOLUBPNT= 9.100      SOLUBTMP= 295.1      A = 10.03      B = 10.03      AVP = 10.03
      BVP = 1646.      CVP = -0.1500      VPUPRND= 333.1      VPLWRBND= 253.1      AVCP = 0.4036E+05
      BVCP = 170.4      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPEND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.4100E+06      HTCOMSTN= -0.2200E+08      HTSOLUTN= -0.1200E+06
      HTREACTN=      HPOLYMR=      LOFLWLIM= 2.800      HTDECOMP=      UPFLWLIM= 16.00      BURNRATE= 0.6012E-04
      TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LAETOX =      ASFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S₁ SYSTEM OF UNITS

```

*****
EGA  CHEMNAME = ETHYLENE GLYCOL MONOETHYL ETHER ACETATE  PATHCODE = A  P  Q
MOLEWT = 132.2  NBP = 429.0  NFP = 211.5  CRITTEMP= 607.0  CRITPRES= 0.3000E+07
DENSITY = 974.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1285.  BRHO = -1.060
CRHO = 0.0000E+00  LDUPRBD= 373.2  LDLWRBD= 273.2  LQVISRNT=  LQVISTMP=
AVIS =  LVUPRBD=  LVLRBD=  LQTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBD=  LTCLOBND=
LQHTCPPT= 2068.  LQHTCPTM= 293.2  AHC = 840.9  BHC = 4.187  LHCUPBND= 313.2
LHCLOBND= 263.2  SURFTENS=  SFTNTMP=  INTFTENS=  INTFTTMP=
SOLUBPNT= 23.00  SOLUBTMP= 298.2  A =  B =  AVP = 9.265
BVP = 1492.  CVP = -79.16  VPUPRBD= 423.2  VPLWRBD= 288.2  AVCP = 0.3341E+05
BVCP = 494.0  CVCP = -0.1758  DVCP = -0.7955E-05  VHCUPBD= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3098E+06  HTCCNSTN= -0.2500E+08(E)  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.700  UPFLMLIM= 6.700  BURNRATE=
TOXINHAL= 100.0  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LAFETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EGD  CHEMNAME = ETHYLENE GLYCOL DIMETHYL ETHER      PATHCODE = A  P  O  R  S
MOLEWT = 90.12      NBP = 358.4      NFP = 204.0      CRITTEMP= 536.0      CRITPRES= 0.3870E+07
DENSITY = 868.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1193.      BRHO = -1.110
CRHO = 0.0000E+00      LDUPRBND= 353.2      LDLPBND= 273.2      LOVISINT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LQTHRCND=      LTCLOBND=
LTHCNTMP=      ACON =      BCON =      LHCUPBND=      LHCUPBND= 303.2      INTFTTMP=
LQHTCPT= 1918.      LQHTCPTM= 293.2      AHC = 690.2      BHC =      INTFTENS=
LHCLOBND= 263.2      SURFTENS=      SFTNTMP=      B =      AVP = 10.11
SOLUBNT=      SOLUBTMP=      A =      VPUPRBND= 333.2      VPLWRBND= 253.2      AVCP = 0.3224E+05
BVP = 1838.      CVP = 0.4004E-01      DVCP = 0.8374E-05      VHCUPBND= 600.0      VHCLOBND= 250.0
BVCP = 356.7      CVCV = -0.1336      HTCON:STN= -0.2797E+08      HTSOLUTN= -0.2000E+05(E
HTFUSION= 0.1394E+06      LHTVAPOR= 0.3123E+06      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.8167E-04
HTREACTN=      HTPOLYMR=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
TOXINHAL=      INHALCNC=      ABFLMTMP=      MOLRATIO=      AIRFUEL =
LATETOX =      ABFLMTMP=      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EGE  CHENAME = ETHYLENE GLYCOL MONOETHYL ETHER      PATHCODE = A  P  Q
      MOLECW = 90.12  NBP = 408.3  CRITTEMP =
      DENSITY = 931.0  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1216.  CRITPRES =
      CRHO = 0.0000E+00  LDUPRND = 373.2  LDWRSND = 273.2  LQVISNT =  LQVISTMP =
      AVIS =  BVIS =  LVUPRND =  LVLWRB'D =  LQTHRCND =
      LTHCNTMP =  ACON =  LTCUPBND =  LTCLOBND =
      LQHTCPPT = 2428.  LQHTCPTM = 293.2  AHC = 1201.  BHC = 4.187  LHCUPBND = 313.2
      LHCLOBND = 273.2  SURFTENS =  SFTNTMP =  INTFTENS =  INTFTTMP =
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 9.277
      BVP = 1408.  CVP = -79.16  VPUPRND = 423.2  VPLWRB'D = 288.2  AVCP = 0.4668E+05
      BVCP = 352.1  CVCP = -0.1507  DVCP = 0.1926E-04  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION =  LHTVAPOR = 0.4438E+06  HTCOMSTN = -0.3100E+08(E)  HTDECOMP =  HTSOLUTN = -0.2000E+05(E)
      HTREACTN =  LHTPOLYMR =  LOFLMLIM = 1.800  UPFLMLIN = 14.00  BURNRATE =
      TOXINHAL =  INHALCNC =  INHALTME =  LOTOXLIN = 0.5000E-03  UPTOXLIM = 0.5000E-02
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
EGL  CHEMNAME = ETHYLENE GLYCOL      PATHCODE = A  P  Q
MOLEWT = 62.07      NBP = 470.8      CRITTEMP = 260.0      CRITPRES =
DENSITY = 1115.      DENSTEMP = 293.2      SHPSTATE=L      ARHO = 1073.      BRHO = 0.9597
CRHO = -0.2800E-02      LDUPRBD = 373.2      LDLWRBD = 273.2      LQVISPT = LQVISTMP =
AVIS =      BVIS =      LVUPRBD =      LVLWRBD = LQTHRCND =
LTHCNTMP =      ACON =      LQHTCPTM = 293.2      AHC = 905.2      BHC = 5.024      LTCLOBND = LTCLOBND =
LQHTCPPT = 2378.      SURFTENS = SFTNTMP =      INTFTENS =      INTFTTMP = LHCUPBND = 423.2
LHCLOBND = 253.2      SOLUBTMP =      A =      B =      AVP = 12.09
BVP = 3280.      CVP = 0.4004E-01      VPUPRBD = 423.2      VPLWRBD = 283.2      AVCP = 0.3140E+05
BVCP = 266.7      CVCP = -0.1549      DVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 250.0
HTFUSION = 0.1871E+06      LHTVAPOR = 0.7997E+06      HTCCWSTN = -0.1689E+08      HTDECOMP = HTSOLUTN = -0.5000E+05(E
HTREACTN =      HTPOLYMR =      LOFLMLIM = 3.200      UPFLMLIM =      BURNRATE = 0.1667E-04
TOXINHAL = 100.0      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-02      UPTOXLIM = 0.1500E-01
LARETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EGM  CHEMNAME = ETHYLENE GLYCOL MONOBUTYL ETHER      PATHCODE = A  P  Q
MOLEWT = 118.2      NBP = 444.4      NFP = 198.0      CRITTEMP= 641.0      CRITPRES= 0.3200E+07
DENSITY = 902.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1169.      BRHO = -0.9100
CRHO = 0.0000E+00      LDUPREND= 373.2      LDLWSEND= 273.2      LQVISFNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBNBND=      LVLWRBND=      LOTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBNBND=      LTCLOBND=
LQHTCPPT= 1968.      LQHTCPTM= 293.2      AHC = 740.4      BHC =      LHCUPBND= 303.2
LHCLOBND= 263.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.02
BVP = 2674.      CVP = 0.4004E-01      VPUPRBNBND= 453.2      VPLWRBND= 288.2      AVCP = 0.4999E+05
BVCP = 531.7      CVCP = -0.2512      DVCP = 0.4103E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3647E+06      HTCONSTN= -0.3160E+08(E)      HTDECOMP=      HTSOLUTN= -0.2000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.100      UPFLMLIN= 10.60      BURNRATE=
TOXINHAL= 50.00      INHALCNC=      INHALTME=      LOTCXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EGY  CHEMNAME = ETHYLENE GLYCOL DIACETATE      PATHCODE = A  P  Q
      MOLECWt = 146.1      NBP = 464.1      CRITTEMP= 231.7      CRITPRES=
      DENSITY = 1104.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1426.      BRHO = -1.100
      CRHO = 0.0000E+00      LDUPRBD= 323.1      (E) LVUPRBD= 303.1      LVLWRBD= 273.1      LQVISTMP= 293.1
      AVIS = -13.01      (E) BVIS = 2100.      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBND= 278.1
      LTHCNTMP= 293.1      ACON = 0.1512      (E) AHC = 782.3      (E) BHC = 4.187      (E) LHCUPBND= 303.1
      LQHTCPPT= 2010.      (E) LOHTCPTM= 293.1      SURFTENS= 0.2000E-01(E)      SFTNTMP= 293.1      INTFTENS=
      LHCLOBND= 283.1      SOLUBTMP= 293.1      A = 8      B = 10.84
      SOLUBPNT= 16.40      CVP = -0.1500      VPUPRBD= 463.1      VPLWRBD= 343.1      AVCP =
      BVCP = 2709.      CVCP = 0.3100E+06      HTCONSTN= -0.2500E+08(E)      HTDECOMP= 8.400      BURNRATE= 0.4843E-04
      HTFUSION= 2709.      LHTVAPOR= 0.3100E+06      LOFLMLIM= 1.600      UPFLMLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
      HTREACTN= 2709.      HTPOLYMR= 2709.      INHALCNC= 2709.      INHALTME= 2709.      LOTOXLIM= 0.1500E-01
      TOXINHAL= 2709.      ABFLMTMP= 2709.      MOLRATIO= 2709.      AIRFUEL =
      LATETOX = 2709.      MOLFRAC = 2709.      FLMETEMP= 2709.
*****

```

EAH	CHENNAME = ETHYLHEXALDEHYDE	PATHCODE = A	T	U
MOLECWT =	128.2	NBP =	437.0	CRITTEMP=
DENSITY =	820.0	DENSTEMP=	293.1	CRITPRES=
CRHO =	0.0000E+00(E)	LDUPREND=	303.1	(E) BRHO =
AVIS =		BVIS =		LOVISTMP=
LTHCNTMP=		ACON =		LOTHRCND=
LQHTCPPT=		LQHTCPTM=		LTCLOBND=
LHCLOBND=		SURTEMS=		LHCUPBND=
SOLUBPNT=		SOLUBTMP=		INTFTTMP=
BVP =	2294.	CVP =	-0.1500	AVP =
BVCP =		CVCP =		AVCP =
HTFUSION=		LHTVAPOR=		VHCLOBND=
HTREACTN=		HTPOLYMR=		HTSOLUTN=
TOXINHAL=		INHALCNC=		BURNRATE=
LARETOX =		ABFLNTMP=		UPTOX LIM=
MOLFRAC =				FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EHP CHEMNAME = ETHOXYDIHYDROPYRAN

PATHCODE = A T U

[illegible]

[illegible]

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ELT  CHEMNAME = ETHYL LACTATE          PATHCODE = A  P  Q
MOLEWT = 118.1      NBP      = 427.0      NFP      =      CRITPRES=
DENSITY = 1030.      DENSTEMP= 293.1      SHPSSTATE=L      ARHO      =      BRHO      = -1.100
CRHO      = 0.0000E+00      LDUPRBND= 343.1      LDLPBND= 273.1      LOVISPT= 0.5700E-02(E) LOVISTMP= 293.1
AVIS      = -18.81      (E) BVIS      = 4000.      (E) LVUPRBND= 298.1      LVLPARBND= 283.1      LOTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON      = 0.1512      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC      = 656.7      (E) BHC      = 4.187      (E) LHCUPBND= 313.1
LHCLOBND= 283.1      SURFTENS= 0.2920E-01      SFTNTMP= 293.1      INTFTERS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.995      (E)
BVP      = 2130.      (E) CVP      = -0.1500      (E) VPUPRBND= 433.1      VPLWRBND= 403.1      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN= -0.2700E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.500      UPFLMLIM= 11.40      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-03      UPTOXLIN= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EMA  CHEMNAME = ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE  PATHCODE = A  P  Q  T  U
MOLECWT = 160.2  NBP = 465.4  NFP = 209.7  CRITTEMP=
DENSITY = 942.0  DENSITY = 293.1  SHPSTATE=L  ARHO = 1235.  CRITPRES=
CRHO = 0.0000E+00  LDUPRND= 303.1  LDLWRND= 273.1  LQVISPNT= 0.1800E-02  LQVISTMP= 293.1
AVIS = -11.78  (E) BVIS = 1600.  (E) LVUPRND= 303.1  LVLWRBD= 283.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E)  LTCUPBND= 303.1  LTCLOBND= 283.1
LQHTCPPT= 1884.  (E) LQHTCPTM= 293.1  AHC = 656.7  (E) BHC = 4.187  (E) LHCUPBND= 303.1
LHCLOBND= 283.1  SURFTENS= 0.2600E-01(E)  SFTNTMP= 293.1  INTFTENS= 11.66
SOLUBPNT= 1.760  SOLUBTMP= 293.1  A = -3.517  B = 0.1800E-01  AVP = 353.1
BVP = 3100.  CVP = -0.1500  VPUPRND= 473.1  VPLWRBD= 353.1  AVCP =
BVCP = 3100.  CVCP = 3100.  DVCP = 3100.  VHCUPBND=
HTFUSION= 0.2700E+06  HTCONSTN= -0.3200E+08(E)  HTDECOMP=
HTREACTN= 0.2700E+06  HTPOLYMR= 0.9000  UPFLWLIV= 8.500  BURNRATE= 0.6847E-04
TOXINHAL= 0.9000  INHALCNC= 0.9000  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX = 0.9000  ABFLWTMP= 0.9000  MOLRATIO= 0.9000  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
EMC  CHEMNAME = ETHYL MERCAPTAN      PATHCODE = A  P  Q  T  U  V  W
MOLEWT = 62.10  NBP = 307.6  CRITTEMP = 499.0  CRITPRES = 0.5500E+07
DENSITY = 826.0  DENSTEMP = 293.1  SRHSTATE=L  BRHO = -1.200
CRHO = 0.0000E+00  LDUPREND = 373.1  LOLWREND = 253.1  LOVISPT = 0.2200E-03  LQVISTMP = 293.1
AVIS = -10.15  BVIS = 510.0  LVUPREND = 313.1  LVLWRB.D = 233.1  LOTHRCND = 0.1326
LTHCNTMP = 293.1  ACCN = 0.2999  BCON = -0.5699E-03  LTCUPB.D = 323.1  LTCLOBND = 263.1
LQHTCPPT = 1901.  LQHTCPTM = 293.1  AHC = 1433.  EHC = 1.591  LHCUPEND = 373.1
LHCLOBND = 253.1  SURFTENS = 0.2350E-01  SFTNTMP = 293.1  INTFTENS = 0.2500E-01(E)  INTFTTMP = 293.1
SOLUBPNT = 1.500  SOLUBTMP = 293.1  A = 0  B = 0  AVP = 9.755
BVP = 1461.  CVP = -0.1500  VPLWRBND = 313.1  VPLWRBND = 263.1  AVCP = 0.3352E+05
BVCP = 134.4  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPB.D = 600.0  VHCLOBND = 250.0
HTFUSION =  LHTVAPOR = 0.4390E+06  HTCOMSTN = -0.3500E+08  HTDECOMP =  HTSOLUTN =
HTREACTN =  HTPOLYMR =  LOFLMLIM = 2.800  UPFLMLIM = 18.00  BURNRATE = 0.9519E-04
TOXINHAL = 0.5000  INHALCNC =  INHALTME =  LOTOXLIM = 0.5000E-03  UPTOXLIM = 0.5000E-02
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EME      CHEMNAME = ETHYLENE GLYCOL MONOMETHYL ETHER      PATHCODE = A P Q
MOLECWT = 76.10      NBP = 397.7      NFP = 188.1      CRITTEMP= 565.0      CRITPRES= 0.5100E+07
DENSITY = 966.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1245.      BRHO = -0.9500
CRHO = 0.0000E+00      LDUPRND= 373.2      LDLWRND= 273.2      LOVISPT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCUN =      LTCUPRND=      LTCLOBND=
LOHTCPPT= 2386.      LOHTCPTM= 293.2      AHC = 1159.      EHC = 4.187      LHCUPEND= 313.2
LHCLOBND= 273.2      SURFTENS= 0.3300E-01      SFINTEMP= 293.2      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUSTMP=      A =      B =      AVP = 9.286
BVP = 1363.      CVP = -79.16      VPUPRND= 423.2      VPLWRND= 289.2      AVCP = 0.4505E+05
BVCP = 262.5      CVCP = -0.1001      DVCP = 0.8374E-05      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.5192E+06      HTCOMSTN= -0.2300E+08(E) HTDECOMP=      HTSOLUTN= -0.1500E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.500      UPFLMLIM= 19.80      BURNRATE=
TOXINHAL= 25.00      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ENB  CHEMNAME = ETHYLDIENENORBORNENE      PATHCODE = A  T  U
      MOLEWT = 120.2  NBP = 420.8  CRITPRES=
      DENSITY = 896.0  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1189.  CRITTEMP=
      CRHO = 0.0000E+00  LDUPRBND= 303.1  LDWRBND= 283.1  LQVISPNT=  LQVISTMP=
      AVIS =  BVIS =  LVUPRBND=  LVLWRBND=  LQTHRCND= 0.1512  (E  BRHO = 1.000
      LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1  LTCLOBND= 283.1
      LQHTCPPT=  LQHTCPTM=  AHC =  BHC =  LHCUPBND=
      LHCLOBND=  SURFTENS=  SFTNTMP=  INTFTMP=  INTFTTMP=
      SOLUBPNT= 0.1000E-01  SOLUBTMP= 293.1  A =  B =  AVP = 10.18
      BVP = 2178.  CVP = -0.1500  VPUPRBND= 423.1  VPLWRBND= 283.1  AVCP =
      BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
      HTFUSION=  LHTVAPOR=  HTCONSTN= -0.4370E+08  HTSOLUTN=
      HTRACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
      TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM=  UPTOXLIM= 0.5000E-04(E
      LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

ENP	CHEMNAME = ETHOXYLATED NONYLPHENOL	PATHCODE = A P	
MOLEWT =	500.0 (E) NBP =	NFP =	CRITTEMP=
DENSITY =	1030. (E) DENSTEMP=	SHFSTATE=L	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VPUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCO::STN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EOD  CHEMNAME = ETHOXYLATED DODECANOL
      MOLEWT = 500.0  NBP = 289.0  CRITTEMP=  CRITPRES=
      DENSITY = 1020.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1303.  BRHO = -1.0000
      CRHO = 0.0000E+00  LDUPREND= 303.2  LOLWRSND= 289.2  LQVISPT=  LQVISTMP=
      AVIS =  BVIS =  LVUPRSND=  LVLWRBND=  LQTHRCND=
      LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
      LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E)  LHCUPBND= 303.0  (E)
      LHCLOBND= 293.0  (E) SURFTENS=  SFTNTMP=  INTFTENS=  INTFTMP=
      SOLUBPNT= 10.00  SOLUBTMP= 293.2  A =  B =  AVP =
      BVP =  CVP =  VPUPRSND=  VPLWRBND=  AVCP =
      BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
      HTFUSION=  LHTVAPOR=  HTCOMSTN= -0.2600E+08(E)  HTDECOMP=  HTSOLUTN=
      HTREACTN=  LHTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
      TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
      LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
      MOLFRAC =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EOP  CHEMNAME = ETHOXYLATED PENTADECANOL
      PATHCODE = A P Q
      MOLEWT = 660.0 NBP = 288.0 CRITTEMP= CRITPRES=
      DENSITY = 1007. DENSTEMP= 288.2 SHPSTATE=L ARHO = 1293. BRHO = -1 0000
      CRHO = 0.0000E+00 LDUPRSND= 303.2 LDWRBND= 288.2 LQVISPNT= LQVISTMP=
      AVIS = BVIS = LVUPRSND= LVLWRBND= LQTHRCND=
      LTHCNTMP= ACON = SCON = LTCUPBND= LTCLOBND=
      LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0 (E
      LHCLOBND= 293.0 (E) SURFTENS= SFTNTEMP= INTFTENS= INTFTIMP=
      SOLUBPNT= 10.00 (E) SOLUBTMP= 293.2 A = B = AVP =
      BVP = CVP = VPUPRSND= VPLWRBND= AVCP =
      BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
      HTFUSION= LHTVAPOR= HTCOMSTN= -0.2600E+08(E) HTDECOMP= HTSOLUTN= -0.2000E+05(E
      HTREACTN= LOFLMLIM= UPFLMLIM= BURNRATE=
      TOXINHAL= INHALTME= LOTOXLIM=
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S SYSTEM OF UNITS

```

EOT  CHEMNAME = ETHOXYLATED TETRADECANOL      PATHCODE = A  P  Q
MOLEWT = 660.0      NBP = 288.0      CRITTEMP =
DENSITY = 1007.      DENSTEMP = 288.2      SHPSTATE=L      ARHO = 1293.      CRITPRES =
CRHO = 0.0000E+00      LDUPREND = 303.2      LDWRBND = 288.2      LQVISPNT =      LQVISTMP =
AVIS =      BVIS =      LVUPREND =      LVLWRBND =      LQTHRCND =
LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOBND =
LQHTCPPT = 2000.      (E) LQHTCPTM = 293.0      (E) AHC = 2000.      (E) BHC =      0.0000E+00(E)      LHCUPBND = 303.0      (E)
LHCLOBND = 293.0      (E) SURFTENS =      SFTINTMP =      INTFTENS =      INTFTTMP =
SOLUBPNT = 10.00      (E) SOLUBTMP = 293.2      A =      B =      AVP =
BVP =      CVP =      VPUPRSND =      VPLWRBND =      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND =      VHCLOBND =
HTFUSION =      LHTVAPOR =      HTCOMSTN = -0.2600E+08(E)      HTDECOMP =      HTSOLUTN = -0.2000E+05(E)
HTREACTN =      HTPOLYMR =      LOFLMLIM =      UPFLMLIM =      BURNRATE =
TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIM =      UPTOXLIM =
LAFETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
MOLFRAC =

```

PATHCODE = A

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EPC  CHEMNAME = EPICHLOROHYDRIN  PATHCODE = A  P  Q
MOLECWT = 92.53  NBP = 388.4  NFP = 215.1  CRITTEMP=
DENSITY = 1180.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1526.  BRHO = -1.113
CRHO = -0.2500E-03  LDUPRND= 388.2  LDWRBND= 273.2  LOVISPNT= 0.1030E-02  LOVISTMP= 298.2
AVIS = -11.41  BVIS = 1353.  LVUPRND= 313.3  LVLWRBND= 273.2  LQTHRCND= 0.7211E-01
LTHCNTMP= 293.2  ACON = 0.3801E-01  BCON = 0.1163E-03  LTCUPBND= 373.2  LTCLOBND= 253.2
LQHTCPPT= 1415.  LQHTCPTM= 293.2  AHC = 310.5  EHC = 3.768  LHCUPBND= 333.2
LHCLOBND= 263.2  SURFTENS= 0.3700E-01  SFNTTEMP= 293.2  INTFTENS=  INTFTTMP=
SOLUBPNT= 6.000  SOLUBTMP= 298.2  A =  B = 10.68  AVP =
BVP = 2184.  CVP = 0.4004E-01  VPUPRND= 373.2  VPLWRBND= 263.2  AVCP = -0.2901E+05
BVCP = 386.9  CVCP = -0.2470  DVCP = -0.5024E-04  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.4099E+06  HTCOMSTN= -0.1894E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 3.800  UPFLMLIM= 21.00  BURNRATE= 0.4333E-04
TOXINHAL= 5.000  INHALCNC= 10.00  INHALTME= 1800.  LOTOXLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

```

MOLECWT =	163.0	=	NBP	=	445.0	=	NFP	=	223.0	(E)	CRITTEMP=	CRITPRES=	
DENSITY =	1350.	=	DENSTEMP=	293.1	=	SHSTATE=L	ARHO	=	4282.	BRHO	=	-10.00	
CRHO =	0.0000E+00	=	LDUPREND=	303.1	=	LDLWRBND=	283.1	=	0.5700E-02(E)	LQVISTMP=	293.1		
AVIS =	-18.81	(E)	BVIS	=	4000.	(E)	LVUPR3ND=	298.1	=	LVLWRBND=	283.1	LOTHRCND= 0.1628 (E)	
LTHCNTMP=	293.1	=	ACON	=	0.1628	(E)	BCON	=	0.0000E+00(E)	LTCUPBND=	298.1	LTCLOBND= 283.1	
LQHTCPTP=	2093.	(E)	LQHTCPTM=	293.1	=	AHC	=	2093.	(E)	BHC	=	0.0000E+00(E)	LHCUPBND= 298.1
LHCLOBND=	283.1	=	SURFTENS=	0.2800E-01(E)	=	SFTNTEMP=	293.1	=	INTFTENS=	INTFTTMP=			
SOLUBPNT=		=	SOLUSTMP=		=	A	=	B	=	AVP	=	11.36	
BVP =	3222.	=	CVP	=	60.85	=	VPUPR3ND=	353.1	=	VPLWRBND=	283.1	AVCP =	
BVCP =		=	CVCP	=		=	DVCP	=		VHCUPBND=		VHCLOBND=	
HTFUSION=		=	LHTVAPOR=		=	HTCOWSTN=	-0.1300E+08(E)	=	HTDECOMP=	HTSOLUTN=		BURNRATE=	
HTREACTN=		=	HTPOLYMR=		=	LOFLMLIM=		=	UPFLMLIN=			UPTOXLIM= 0.5000E-03	0.5000E-02
TOXINHAL=		=	INHALCNC=		=	INHALTME=		=	LOTOXLIM=			FLMETEMP=	
LATETOX =		=	ABFLMTMP=		=	MOLRATIO=		=	AIRFUEL =				
MOLFRAC =		=			=			=					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

EPP CHEMNAME = ETHYL PHOSPHORODICHLORIDATE PATHCODE = A 0

MOLECW = 162.9	NBP = 440.0	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 1350.	DENSTEMP = 292.1	SHSTATE = L	ARHO =	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPRBND = 303.1	LDLWRBND = 283.1	LQVISPNT =	0.5700E-02(E)	LQVISTMP = 293.1
AVIS = -18.81	(E) BVIS = 4000.	(E) LVUPRBND = 298.1	LVLWRBND =	283.1	LOTHRCND = 0.1628 (E)
LTHCNTMP = 293.1	ACON = 0.1628	(E) BCON = 0.0000E+00(E)	LTCUPBND =	298.1	LTCLOBND = 283.1
LQHTCPPT = 2093.	(E) LQHTCPTM = 293.1	AHC = 2093.	(E) BHC =	0.0000E+00(E)	LHCUPBND = 298.1
LHCLOBND = 283.1	SURFTENS = 0.2500E-01(E)	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	10.23 (E)
BVP = 2300.	(E) CVP = -0.1500	(E) VPUPRBND = 453.1	VPLWRBND =	413.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.1100E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	
LATETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
EPS      CHEMNAME = ETHYL PHENYLDICHLOROSILANE      PATHCODE = A  O
MOLEWT = 205.1      NBP      = 422.0      (E) NFP      =
DENSITY = 1159.      DENSTEMP= 288.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDWRBND= 283.1
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPREND= 298.1
LTHCNTMP= 293.1      ACON = 0.1396      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1
LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 288.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          E =
BVP = 2561.      CVP = -0.1500      VPUPREND= 473.1      VPLWRBND=
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR= 0.2400E+06      HTCOMSTN= -0.2300E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTWE=          LOTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

```

CRITPRES=
      (E) BRHO = -1.000      (E)
      LQVISTMP= 293.1
      LQTHRCND= 0.1396      (E)
      LTCLOBND= 283.1
      LHCUPBND= 303.1
      INTFTTMP=
      AVP = 10.12
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE= 0.6179E-04
      UPTOXLIM= 0.5000E-03
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ESC  CHEMNAME = ETHYL SILICATE
      MOLEWT = 208.3      NBP = 442.0      NFP = 187.7      CRITTEMP=
      DENSITY = 933.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1226.      CRITPRES=
      CRHO = 0.0000E+00      LDUPREND= 343.1      LDLPREND= 273.1      LOVISPNT= 0.7000E-03      LOVISTMP= 293.1      BRHO = -1.000
      AVIS = -10.81      BVIS = 1040.      LVUPREND= 343.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      LQTHRCND= 0.1512      (E
      LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 298.1      LTCLOBND= 283.1      LTCLOBND= 283.1
      LQHTCPPT= 1800.      LQHTCPTM= 293.1      AHC = 1800.      BHC = 0.0000E+00      LHCUPBND= 313.1      LHCUPBND= 313.1
      LHCLOBND= 283.1      SURFTENS= 0.2280E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.08      AVP =
      BVP = 2242.      CVP = -0.1500      VPUPREND= 443.1      VPLWRBND= 283.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.2200E+06      HTCO/3TN= -0.2800E+08(E)      HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.300      UPFLMLIM= 23.00      BURNRATE= 0.7348E-04
      TOXINHAL= 100.0      INHALCNC= 200.0      INHALTME= 1800.      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ETA  CHEMNAME = ETHYL ACETATE
      PATHCODE = A P Q
      MOLEWT = 88.11 NBP = 350.0 CRITPRES= 0.3800E+07
      DENSITY = 902.0 DENSTEMP= 293.2 CRITTEMP= 523.0 BRHO = -0.1074
      CRHO = -0.2000E-02 LDUPRBND= 313.2 LDWRBND= 273.2 LOVISINT= 0.4400E-03 LOVISIMP= 294.2
      AVIS = -11.17 BVIS = 1014. LVUPRBND= 343.2 LVLWRBND= 273.2 LQTHRCND= 0.1465
      LTHCNTMP= 293.2 ACON = 0.2350 BCON = -0.3024E-03 LTCUPBND= 333.2 LTCLOBND= 273.2
      LQHTCPPT= 1934. LQHTCPTM= 293.2 AHC = 1198. BHC = 2.512 LHCUPBND= 333.2
      LHCLOBND= 263.2 SURFTENS= 0.2400E-01 SFTNTMP= 293.2 INTFTENS= 0.4000E-01(E) INTFTIMP= 293.0 (E)
      SOLUBPNT= 8.700 SOLUBTMP= 293.2 A = B = 10.36
      BVP = 1873. CVP = 0.4004E-01 VPUPRBND= 353.2 VPLWRBND= 293.2 AVCP = 0.5024E+05
      BVCP = 196.4 CVCP = 0.5443E-01 DVCP = 0.0000E+00 VHCUPBND= 600.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.3668E+06 HTCONSTN= -0.2351E+08 HTSOLUTN=
      HTREACTN= LHTPOLYMR= LHTFLMLIM= 2.200 UFFFLMLIM= 9.000 BURNRATE= 0.6167E-04
      TOXINHAL= 400.0 INHALCNC= 1000. INHALTME= 900.0 LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
      LATETOX = ABFLMTMP= ABFLMTMP= MOLRATIO= FLMETEMP=
      MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ETC  CHEMNAME = ETHYLENE CYANOHYDRIN      PATHCODE = A  P  Q
MOLECWT = 71.08      NBP = 502.9      NFP = 227.0      CRITTEMP= 702.0      CRITPRES= 0.4900E+07
DENSITY = 1047.      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1323.      BRHO = -0.9400
CRHO = 0.0000E+00      LDUPRBND= 373.2      LDLRBND= 273.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2400.      (E) LQHTCPTM= 298.0      (E) AHC = 2400.      (E) BHC =      0.0000E+00(E) LHCUPBND= 323.0      (E
LHCLOBND= 283.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.97      (E
BVP = 3000.      (E) CVP = 0.0000E+00(E) VPUPRBND= 500.0      (E) VPLWRBND= 300.0      (E) AVCP =
BVCP =      CVCP =      DVCP =      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMBTN= -0.2340E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.300      UPFLMLIM= 12.10      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ETD	CHEMNAME = ETHOXYLATED TRIDECANOL	PATHCODE = A P Q			
MOLEWT =	464.0	NBP =		CRITTEMP=	CRITPRES=
DENSITY =	1000.	DENSTEMP=	288.2	ARHO =	BRHO = -1.0000
CRHO =	0.0000E+00	LDUPRND=	303.2	LQVISPT=	LQVISTMP=
AVIS =		BVIS =		LVLWRND=	LQTHRCND=
LHCNTRP=		ACON =		LTCUPBND=	LTCLOBND=
LQHTCPPT=	2000.	(E) LQHTCPTM=	293.0	(E) BHC =	LHCUPBND= 303.0 (E
LHCLOBND=	293.0	(E) SURFTENS=		INTFTENS=	INTFTTMP=
SOLUBPNT=	10.00	(E) SOLUBTMP=	293.2	B =	AVP =
BVP =		CVP =		VPLWRND=	AVCP =
BVCP =		CVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCO:STN= -0.2600E+08(E)	HTSOLUTN= -0.2000E+05(E
HTREACTN=		HTPOLYMR=		LOFLMLIN=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=	UPTOXLIM= 0.5000E-02
LATETOX =		ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ETH  CHEMNAME = ETHANE
      MOLEWT = 30.07      NBP = 184.6      CRITPRES= 0.4879E+07
      DENSITY = 546.0     DENSTEMP= 184.6     BRHO = -1.300
      CRHO = 0.0000E+00   LDUPREND= 253.2     LQVISTMP= 185.2
      AVIS = -11.73      BVIS = 564.0     LQVISPNT= 0.1700E-03
      LTHCNTMP=          ACON =          LVLWRBND= 183.2     LQVISTMP= 185.2
      LQHTCPTP= 2470.    LQHTCPTM= 193.2     LTCLOBND=
      LHCLOBND= 93.16    SURFTENS= 0.1600E-01     LHCUPBND= 203.2
      SOLUBPNT=          SOLUBTMP=          SFTNTEMP= 185.2     INTFTTMP= 185.0 (E)
      BVP = 800.0        CVP = 0.4004E-01     VPLWRBND= 163.2     AVCP = 0.1884E+05
      BVCP = 112.6       CVCP = 0.0000E+00     DVCP = 0.0000E+00     VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.4899E+06     HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.900     UPFLMLIM= 13.00     BURNRATE= 0.1217E-03
      TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLM=          UPTOXLM=
      LATETOX =          ABFLWTMP= 2394.      (E) MOLRATIO= 0.9000     (E) AIRFUEL = 15.98     (E) FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ETI	CHEMNAME = ETHYLENEIMINE	PATHCODE = A P Q R S Z					
MOLEWT =	43.07	NBP =	329.0	NFP =	195.0	CRITPRES=	
DENSITY =	832.0	DENSTEMP=	293.2	SHPSSTATE=L		ARHO =	1096.
CRHO =	0.0000E+00	LDUPRBND=	373.2	LDLWRBND=	253.2	LQVISTMP=	-0.9000
AVIS =		BVIS =		LVUPRBND=		LQTHRCND=	
LTHCNTMP=		ACON =		BCON =		LTCLOBND=	
LQHTCPPT=	2479.	LQHTCPTM=	293.2	AHC =	1128.	LHCUPBND=	373.2
LHCLOBND=	263.2	SURFTENS=	0.3450E 01	SFTNTMP=	293.2	INTFTTMP=	
SOLUBPNT=		SOLUBTMP=		A =		AVP =	9.257
BVP =	1134.	CVP =	-63.16	VPUPRBND=	373.2	AVCP =	-0.1269E+05
BVCP =	250.8	CVCP =	-0.1068	DVCP =	0.0000E+00	VHCLOBND=	250.0
HTFUSION=		LHTVAPOR=	0.7746E+06	HTCOMB3TN=	-0.3705E+08	HTSOLUTN=	-0.6000E+05(E
HTREACTN=		HTPOLYMR=	-0.2000E+07(E)	LOFLMLIM=	3.300	BURNRATE=	
TOXINHAL=		INHALCNC=	5.000	INHALTIME=	1800.	UPTOXLIM=	
LATETOX =		ABFLMTMP=		MOLRATIO=		FLMETEMP=	
MOLFRAC =							

PATHCODE =	A	B	C	D	E	F	G
------------	---	---	---	---	---	---	---

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

EYM  CHEMNAME = ETHYL METHACRYLATE      PATHCODE = A  T  U  Z
MOLEWT = 114.0      NBP = 390.0      (E) CRITTEMP=
DENSITY = 918.0      DENSTEMP= 288.7      SHESTATE=L      ARHO = 1207.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDWRSND= 278.1      LQVISINT= 0.8700E-03      LQVISTMP= 298.1
AVIS = -11.41      (E) BVIS = 1300.      (E) LVUPRSND= 303.1      LVLWRBND= 288.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      LQHTCPTM= 293.1      AHC = 1884.      BHC = 0.0000E+00      LHCUPEND= 303.1
LHCLOBND= 288.1      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      A =      B =      AVP = 10.15
BVP = 2008.      CVP = -0.1500      VPUPRSND= 393.1      VPLWRBND= 288.1      AVCP = 0.1645E+05
BVCP = 476.6      CVCP = -0.2101      DVCP = 0.1256E-04      VHCUPBND= 250.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3100E+06(E) HTCOMSTN= -0.2940E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR= -0.5050E+06      LOFLMLIM= 1.800      UPFLMLIM=      BURNRATE= 0.7615E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ETN	CHEMNAME = ETHYL NITRITE	PATHCODE = A B C D E F G						
MOLEWT =	75.10	NBP =	290.0	NFP =	223.0	CRITTEMP=	CRITPRES=	
DENSITY =	900.0	DENSTEMP=	288.1	SHRSTATE=L		ARHO =	1188. BRHO = -1.000	
CRHO =	0.0000E+00	LDUPREND=	298.1	LDLWREND=	273.1	LOVISPNT=	0.3200E-02(E) LOVISTMP= 293.1	
AVIS =	-12.91	(E) BVIS =	2100.	(E) LVUPREND=	298.1	LVLWREND=	283.1 LQTHRCND= 0.1628 (E)	
LTHCNTMP=	288.1	ACON =	0.1628	(E) SCON =	0.0000E+00(E) LTCUPBND=	293.1	LTCLOBND= 283.1	
LQHTCPPT=	2093.	(E) LQHTCPTM=	283.1	AHC =	907.9	(E) BHC =	4.187 (E) LHCUPBND= 298.1	
LHCLOBND=	283.1	SURFTENS=	0.3000E-01(E) SFTINTMP=	293.1	INTFTENS=	0.3500E-01(E) INTFTTMP=	293.1	
SOLUBPNT=		SOLUBTMP=	A =	B =	AVP =	12.17		
BVP =	2080.	CVP =	-0.1500	VPUPRSND=	293.1	VPLWRSND=	273.1 AVCP =	
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=	
HTFUSION=		LHTVAPOR=	0.5320E+06	HTCONSTN=	-0.1800E+08(E) HTDECOMP=	HTSOLUTN=		
HTREACTN=		HTPOLYMR=		LOFLMLIM=	3.000	UPFLMLIM=	50.00 (E) BURNRATE= 0.4342E-04	
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=	
LATETOX =		ABFLWTMP=		MOLRATIO=	0.6500	(E) AIRFUEL =	4.113 (E) FLMETEMP=	
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

ETS      CHEMNAME = ETHYLTRICHLOROSILANE      PATHCODE = A  0

MOLECW = 163.5      NBP = 372.0
DENSITY = 1240.      DENSTEMP = 298.1      SHPSTATE=L
CRHO = 0.0000E+00(E) LDUPRND = 313.1      LDLWRBND = 273.1      LQVISPNT = 293.1      (E)
AVIS = -12.91      (E) BVIS = 2100.      (E) LVUPRND = 298.1      LVLWRBND = 283.1      LQTHRCND = 0.1279      (E)
LTHCNTMP = 293.1      ACON = 0.1279      (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1      LTCLOBND = 278.1
LQHTCPPT = 1675.      (E) LQHTCPTM = 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND = 298.1
LHCLOBND = 278.1      SURFTENS = 0.2500E-01(E) SFTNTMP = 293.1      INTFTENS =
SOLUBPNT =          SOLUBTMP =          A =          B =          AVP =          = 10.56
BVP = 2066.      CVP = -0.1500      VPUPRND = 378.1      VPLWRBND = 293.1      AVCUPBND =
BVCP =          CVCP =          DVCP =          VHCUPBND =          HTSOLUTN =
HTFUSION =          LHTVAPOR = 0.2400E+06      HTCONSTN = -0.1000E+08(E) HTDECOMP =
HTREACTN =          HTPOLYMR =          LOFLMLIM =          UPFLMLIM =          BURNRATE = 0.3340E-04
TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM =          UPTOXLIM = 0.5000E-02
LATETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
EVO  CHEMNAME = EPOXIDIZED VEGETABLE OILS      PATHCODE = A  T  U
      MOLEWT =      NBP =      CRITENP=      CRITPRES=
      DENSITY = 1000.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1293.  BRHO = -1.0000
      CRHO = 0.0000E+00  LDUPREND= 303.2  LDLWRSND= 273.2  LQVISPNT= 0.5180  LQVISTMP= 293.2
      AVIS =      BVIS =      LVUPRSND=      LQTHRCND= 0.1600  (E
      LTHCNTMP= 293.0  (E) ACON = 0.1600  (E) BCOR = 0.0000E+00(E) LTCUPBND= 303.0  (E) LTCLOBND= 283.0  (E
      LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0  (E
      LHCLOBND= 278.0  (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0  (E
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VPUPRSND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCONSTN= -0.3000E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FAC CHEMNAME = FERRIC AMMONIUM CITRATE PATHCODE = SS

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1800.	DENSTEMP= 293.1	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPTM=	LQHTCPTM=	AHC =	LHCUPBND=	LHCLOBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTIMP=	INTFTIMP=
SOLUBPNT= 25.00	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VPUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FAL  CHEMNAME = FURFURYL ALCOHOL          PATHCODE = A  P  Q
MOLECW = 98.10      NBP = 443.0      CRITPRES =
DENSITY = 1130.     DENSTEMP = 293.1  CRITTEMP =
CRHO = 0.0000E+00  LDUPREND = 303.1  ARHO = 1423.
AVIS = -18.81      BVIS = 4000.     LQVISTMP = 298.1
LTHCNTMP = 303.1   ACON = 0.1744 (E) BCON = 0.0000E+00(E) LTCLOBND = 273.1
LQHTCPPT = 2093.   LQHTCPTM = 298.1  AHC = 595.4  EHC = 5.024
LHCLOBND = 273.1  SURFTENS = 0.3800E-01 SFTNTEMP = 293.1  INTFTENS =
SOLUBPNT =        SOLUBTMP =        A =        B =
BVP = 2792.        CVP = -0.1500     VPUPRBN = 443.1  VPLWRBN = 298.1
BVCP =            CVCP =            DVCP =            VHCUPBN =
HTFUSION =        LHTVAPOR = 0.5400E+06 HTCOMSTN = -0.2600E+08 HTSOLUTN =
HTREACTN =        HTPOLYMR =        LOFLMLIM = 1.800  UPFLMLIM = 16.30
TOXINHAL = 5.000  INHALCNC = 50.00  INHALTME = 1800.  LOTXCLIM = 0.5000E-04
LATETOX =        ABFLMTMP =        MOLRATIO =        AIRFUEL =
MOLFRAC =        MOLRATIO =        FLMETEMP =
CRITPRES =
BRHO = -1.000
LQVISTMP = 298.1
LQTHRCND = 0.1744
LTCLOBND = 273.1
LHCUPBND = 308.1
INTFTIMP =
AVP = 11.30
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE = 0.3841E-04
UPTOXLIM = 0.5000E-03
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FAO  CHEMNAME = FERRIC AMMONIUM OXALATE          PATHCODE = SS
      MOLEWT = 428.0      NBP =      DENSTEMP= 293.1      SHPSTATE=S
      DENSITY = 1780.      LDUPRBD=      BVIS =      ACON =      LQHTCPTM=      SURFTENS=
      CRHO =      AVIS =      LTHCNTMP=      LQHTCPTM=      SOLUBPNT= 100.0      CVP =      CVCP =      LHTVAPOR=
      LQHTCPTM=      LHCLOBND=      SOLUBPNT= 100.0      CVP =      CVCP =      LHTVAPOR=
      BVP =      BVCP =      HTFUSION=      HTREACTN=
      TOXINHAL= 0.5200E-01      INHALCNC=      ABFLMTMP=
      LATETOX =      MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM=
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LQVISPNT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B =
      VPLWRBND=
      VHCUPBND=
      HTDECOMP=
      UPFLMLIM=
      LOTOXLIM=
      AIRFUEL =
      MOLRATIO=

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

FAS  CHEMNAME = FERROUS AMMONIUM SULFATE          PATHCODE = SS

MOLECWT = 392.2      NBP =          NFP =          CRITPRES=
DENSITY = 1860.      DENSTEMP= 293.1      SHPSTATE=S      CRITTEMP=
CRHO =              LDUPREND=              LDWRSND=      ARHO =
AVIS =              BVIS =              LVUPREND=      LQVISPNT=
LTHCNTMP=          ACON =              BCON =          LVLWRBND=
LOHTCPPT=          LOHTCPTM=              AHC =          LTCUPBND=
LHCLOBND=          SURFTENS=              SFTNTEMP=      BHC =
SOLUBPNT= 26.40     SOLUBTMP= 293.1      A = -178.7      INTFTEMP=
BVP =              CVP =              VPUPREND=      AVP =
BVCP =              CVCP =              DVCP =          AVCP =
HTFUSION=          LHTVAPOR=              HTCOMSTN=      VHCLOBND=
HTREACTN=          HTPOLYMR=              LOFLMLIM=      HTSOLUTN=
TOXINHAL= 0.5700E-01  INHALCNC=              INHALTME=      BURNRATE=
LATETOX =          ABFLTMP=              MOLRATIO=      UPTOXLIM= 0.5000E-02
MOLFRAC =          MOLFRACTION =              FLMETEMP=
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FCL  CHEMNAME = FERRIC CHLORIDE          PATHCODE = SS
MOLEWT = 162.2      NBP =
DENSITY = 2800.     DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LOHTCPPT=
LHCLOBND=
SOLUBPNT= 74.40    SOLUBTMP= 273.1
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.1380
LATETOX =
MOLFRAC =

NFP =
SHPSTATE=S
LDLWRBND=
LVUPRBND=
BCON =
AHC =
SFTNTMP=
A = -220.6
VPUPRBND=
DVCP =
HTCOMSTN=
LOFLMLIM=
INHALTME=
MOLRATIO=

CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 1.080
AVCP =
VHCLOBND=
HTSOLUTN= -0.8400E+06
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPAT=
VPLWRBND=
VHCUPBND=
HTDECONP=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FCP CHEMNAME = FERRIC GLYCEROPHOSPHATE

PATHCODE = SS

MOLEWT = 470.0	(E) NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1500.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 50.00	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	LOFLMLIM=	BURNRATE=
TOXINHAL= 0.4800E-01(E)	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FEC CHEMNAME = FERROUS CHLORIDE PATHCODE = SS

MOLEWT = 198.0	NBP =	NFP =	CRITEMP=	CRITPRES=
DENSITY = 1930.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 62.60	SOLUBTMP= 293.1	A = -127.8	B = 0.6500	AVP =
BVP =	CVP =	VPUPRND=	VPLWRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN= -0.4200E+05
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.1130	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PATHCODE = A P Q

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/54/54 PAGE431

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FFB	CHEMNAME = FERROUS FLUOROBORATE	PATHCODE = A P
MOLEWT = 229.5	NBP =	CRITPRES =
DENSITY = 1100. (E) DENSTEMP = 293.1	SHSTATE=L	BRHO =
CRHO =	LDLWRBND=	LQVISTMP=
AVIS =	BVIS =	LQTHRCND=
LTHCNTMP=	ACON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	LHCUPBND=
LHCLOBND=	SURFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	AVP =
BVP =	CVP =	AVCP =
BVCP =	CVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	BURNRATE=
TOXINHAL= 0.9800E-01	INHALCNC=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	FLMETEMP=
MOLFRAC =		
	NFP =	CRITTEMP=
	LDLWRBND=	ARHO =
	LVUPRBND=	LOVISBND=
	BCON =	LVLWRBND=
	AHC =	LTCUPBND=
	SFTNTMP=	BHC =
	A =	INTFTNS=
	VPUPRBND=	B =
	DVCP =	VPLWRBND=
	HTCOMSTN=	VHCUPBND=
	LOFLMLIM=	HTDECCMP=
	INHALTME=	UPFLMLIM=
	MOLRATIO=	LOTOXLIM=
		AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FMA  CHEMNAME = FORMIC ACID          PATHCODE = A  P  Q
MOLEWT = 46.03      NBP = 374.0      NFP = 281.6      CRITTEMP=
DENSITY = 1220.     DENSTEMP= 293.2  SHPSTATE=L      ARHO = 1568.
CRHO = 0.0000E+00  LDUPRBD= 313.2    LDWRSND= 273.2  LOVISPT=
AVIS =             BVIS =             LVUPRBD=         LVLWRBND=
LTHCNTMP=          ACON =             BCOR =           LTCUPBND=
LQHTCPPT= 2135.     LQHTCPTM= 293.2    AHC = 1276.     SHC = 2.931
LHCLOBND= 293.2     SURFTENS= 0.3800E 01  SFTNTEMP= 288.2  INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =             B =
BVP = 1890.         CVP = 0.4004E-01  VPUPRBD= 373.2  VPLWREND= 273.2
BVCP = 119.3       CVCP = -0.5024E-01  DVCP = 0.0000E+00  VHCUPBND= 600.0
HTFUSION=          LHTVAPOR= 0.5024E+06  HTCOMBSTN= -0.4756E+07  HTSOLUTN= -0.6000E+05(E
HTREACTN=          HTPOLYMR=          LOFLMLIM= 18.00  UPFLMLIM= 57.00
TOXINHAL= 5.000     INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO = -1.200
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND= 413.2
INTFTTMP=
AVP = 10.07
AVCP = 0.1411E+05
VHCLOBND= 250.0
BURNRATE= 0.8333E-05
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FMS CHEMNAME = FORMALDEHYDE SOLUTION

PATHCODE = A P Q

MOLEWT =	NBP =	NFP =	CRITTEVP =	CRITPRES =
DENSITY = 1100.	DENSTEMP = 298.2	SHSTATE=L	ARHO = 1337.	BRHO = -0.5000
CRHO = 0.0000E+00	LDUPRBND = 313.2	LDLWRBND = 273.2	LQVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 3349.	LQHTCPTM = 298.2	AHC = 2122.	BHC = 4.187	LHCUPBND = 313.2
LHCLOBND = 273.2	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	S =	AVP = 11.69
BVP = 2768.	CVP = 0.4004E-01	VPUPRBND = 373.2	VPLWRBND = 293.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECONP =	HTSOLUTN = -0.2000E+05(E
HTREACTN =	HTPOLYMR =	LOFLMLIM = 7.000	UPFLMLIM = 73.00	BURNRATE =
TOXINHAL = 2.000	INHALCNC = 5.000	INHALTME = 300.0	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FNT    CHEMNAME = FERRIC NITRATE                PATHCODE = SS
MOLEWT = 404.0      NBP      =      320.0
DENSITY = 1700.     DENSTEMP= 293.1      SHPSTATE=S
CRHO    =           LDUPREND=
AVIS    =           BVIS     =
LTHCNTMP=           ACON     =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT= 82.50     SOLUBTMP= 293.1      A      = -143.2      B      = 0.7700
BVP      =           CVP      =           VPUPRSND=
BVCP     =           CVCP     =           DVCP      =
HTFUSION=           LHTVAPOR=           HTCOMSTN=
HTREACTN=           HTPOLYMR=           LOFLMLIM=
TOXINHAL= 0.5550E-01  INHALCNC=           INHALTME=           LOTOXLIM= 0.5000E-03
LAFETOX  =           ABFLMTMP=           MOLRATIO=
MOLFRAC  =
CRITPRES=
BRHO     =
LQVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP       =
AVCP      =
VHCLOBND=
HTSOLUTN= 0.9200E+05
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

PATHCODE = II

MOLECW	179.9	NBP	=	NFP	=	CRITTEMP	=	CRITPRES
DENSITY	2300.	DENSTEMP	=	293.1	=	ARHO	=	BRHO
CRHO		LDUPRBN	=	LDLWRBN	=	LOVISPT	=	LOVISTMP
AVIS		BVIS	=	LVUPRBN	=	LVLWRBN	=	LOTHRCND
LTHCNTMP		ACON	=	BCON	=	LTCUPBN	=	LTCLOBND
LQHTCPPT		LQHTCPTM	=	AHC	=	BHC	=	LHCUPBN
LHCLOBND		SURFTENS	=	SFTNTMP	=	INTFTENS	=	INTFTTMP
SOLUSPNT		SOLUBTMP	=	A	=	B	=	AVP
BVP		CVP	=	VPUPRBN	=	VPLWRBN	=	AVCP
BVCP		CVCP	=	DVCP	=	VHCUPBN	=	VHCLOBND
HTFUSION		LHTVAPOR	=	HTCOMBTN	=	HTDECOMP	=	HTSOLUTN
HTREACTN		HTPOLYMR	=	LOFLMLIM	=	UPFLMLIM	=	BURNRATE
TOXINHAL		INHALCNC	=	INHALTME	=	LOTOXLIM	=	UPTOXLIM
LATETOX		ABFLMTMP	=	MOLRATIO	=	AIRFUEL	=	FLMETEMP
MOLFRAC								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FRS  CHEMNAME = FERROUS SULFATE          PATHCODE = SS
MOLEWT = 170.0      NBP =
DENSITY = 1900.     DENSTEMP= 288.2
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

NFP =
SHPSTATE=S
LDLWRBND=
LVUPREND=
BCON =
AHC =
SFTNTMP=
A = -134.5
VPUPREND=
DVCP =
HTCOMSTN=
LOFLMLIM=
INHALTME=
MOLRATIO=

CRITTEMP=
ARHO =
LQVISFNT=
LVLWRBND=
LTCUPBND=
SHC =
INTFTENS=
B = 0.5500
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPEND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FSA  CHEMNAME = FLUOSULFONIC ACID          PATHCODE = A  0

MOLEWT = 100.1      NBP = 435.9
DENSITY = 1730.     DENSTEMP= 298.1
CRHO = 0.0000E+00   LDUPREND= 333.1
AVIS = -10.14      BVIS = 1105.
LTHCNTMP= 293.1     ACON = 0.1628
LQHTCPPT= 2093.     (E) LQHTCPTM= 293.1
LHCLOBND= 283.1     SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP = 2300.         CVP = -0.1500
BVCP =             CVCP =
HTFUSION=           LHTVAPOR= 0.3900E+06
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LAFETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITPRES=
BRHO = -2.000
LOVISTMP= 293.1
LOTHRCND= 0.1628 (E)
LTCLOBND= 283.1
LHCUPBND= 303.1
INTFTTMP=
AVP = 10.29
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTEMP=
ARHC = 2326.
LOVISPNT= 0.1700E-02
LVLWRBND= 253.1
LTCUPBND= 303.1
BHC = 0.0000E+00(E)
INTFTENS=
S =
VPLWRBND= 243.1
VHCUPBND=
HTDECOMP=
UPFLWLIM=
LOTOXLIM=
AIRFUEL =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/03/76 TIME 05/55/04 PAGE438

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

FSF	CHEMNAME = FERRIC SULFATE	PATHCODE = SS
MOLECWT =	399.9	NBP =
DENSITY =	3100.	DENSTEMP =
CRHO =		LDUPRND =
AVIS =		BVIS =
LHCNTMP =		ACON =
LQHTCPPT =		LOHTCPTM =
LHCLOBND =		SURFTENS =
SOLUBPNT =		SOLUBTMP =
BVP =		CVP =
BVCP =		CVCP =
HTFUSION =		LHTVAPOR =
HTREACTN =		HTPOLYMR =
TOXINHAL =	0.5600E-01	INHALCNC =
LATETOX =		ABFLMTMP =
MOLFRAC =		
		NFP =
		SHPSTATE = S
		LDLWRBND =
		LVUPRND =
		BCON =
		AHC =
		SFTNTMP =
		A =
		VPUPRND =
		DVCP =
		HTCO:GTN =
		LOFLMLIM =
		INHALTME =
		MOLRATIO =
		CRITTEMP =
		ARHO =
		LQVISPT =
		LVLRBND =
		LTCUPBND =
		BHC =
		INTFTENS =
		B =
		VPLWRBND =
		VHCUPBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =
		CRITPRES =
		BRHO =
		LQVISTMP =
		LQTHRCND =
		LTCLOBND =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLOBND =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
FSL  CHEMNAME = FLUOSILICIC ACID          PATHCODE = A  P
MOLECW = 144.1      NBP = 373.0      (E) NFP = 247.5      (E) CRITTEMP=
DENSITY = 1300.      (E) DENSTEMP= 298.1      SHPSTATE=L      ARHO =
CRHO =              LDUPREND=              LDWRBND=              LQVISPNT=
AVIS =              BVIS =              LVUPREND=              LVLWRBND=
LTHCNTMP=          ACON =              BCON =              LTCUPBND=
LQHTCPPT=          LQHTCPTM=              AHC =              BHC =
LHCLOBND=          SURFTENS=              SFTNTMP=              INTFTENS=
SOLUBPNT=          SOLUBTMP=              A =              B =
BVP =              CVP =              VPUPREND=              VPLWRBND=
BVCP =              CVCP =              DVCP =              VHCUPEND=
HTFUSION=          LHTVAPOR=              HTCONSTN=              HTSOLUTN=
HTREACTN=          HTPOLYMR=              LOFLMLIM=              UPFLMLIM=
TOXINHAL=          INHALCNC=              INHALTME=              LOTOXLIN=
LATETOX =          ABFLMTMP=              MOLRATIO=              AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO =
LQVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPEND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

FXX  CHEMNAME = FLUORINE                PATHCODE = A  C
MOLECWT = 37.99      NBP = 85.00      NFP = 54.00      CRITTEMP= 144.6      CRITPRES= 0.5580E+07
DENSITY = 1500.      DENSTEMP= 85.16      SHPSTATE=L      ARHO = 1559.      BRHO = -0.7300
CRHO = 0.0000E+00      LDUPREND= 173.2      LDWRBND= 85.16      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLOBND=
LQHTCPPT= 1600.      (E) LQHTCPTM= 100.0      (E) AHC = 1600.      (E) BHC = 0.0000E+00(E) LHCUPBND= 110.0      (E)
LHCLOBND= 90.00      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.896
BVP = 331.0      CVP = 0.4004E-01      VPUPRSND= 143.2      VPLWRBND= 83.16      AVCP = 0.2396E+05
BVCP = 30.75      CVCP = -0.1989E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.1666E+06      HTCOMSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
TOXINHAL= 1.000      INHALCNC= 0.5000      INHALTME= 300.0      LOTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GAK	CHEMNAME = GASOLINE BLENDING STOCKS: ALKYLATES	PATHCODE = A	T	U	V	W
	MOLECWt =	NBP =	287.0	(E)	NFP =	CRITTEMP=
	DENSITY =	710.0	(E)	DENSTEMP=	288.2	SHPSTATE=L ARHC =
	CRHO =	0.0000E+00(E)	LDUPREND=	353.0	(E)	LDLWRBND= 273.0
	AVIS =	-11.00	(E)	BVIS =	943.0	(E)
	LTHCNTMP=	293.0	(E)	ACON =	0.1950	(E)
	LQHTCPPT=	2210.	(E)	LQHTCPTM=	293.0	(E)
	LHCLGBND=	253.0	(E)	SURFTENS=	0.2100E-01(E)	SFNTTEMP=
	SOLUBPNT=			SOLUBTMP=	A	=
	BVP =			CVP =		VPUPRSND=
	BVCP =	647.0	(E)	CVCP =	-0.2700	(E)
	HTFUSION=			LHTVAPOR=	0.2973E+06(E)	HTCOMSTN=
	HTREACTIN=			HTPOLYMR=		LOFLMLIM=
	TOXINHAL=			INHALLCNC=	500.0	INHALTME=
	LATETOX =			ABFLMTMP=		MOLRATIO=
	MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GAT  CHEMNAME = GASOLINE: AUTOMOTIVE ( ) 4.23G LEAD/GAL. )  PATHCODE = A  T  U  V  W
MOLEWT =          NBP = 333.0 (E) NFP =          SHPSTATE=L          CRITEMP=          CRITPRES=
DENSITY = 710.0 (E) DENSTEMP= 293.2          LDUPRND= 273.0 (E) LQVISPNT=          ARHO = 947.0 (E) BRHO = -0.9000 (E)
CRHO = 0.0000E+00(E) LDUPRND= 353.0 (E) LVUPRND= 353.0 (E) LVLWRBND=          LQVISTMP= 293.0 (E)
AVIS = -11.00 (E) BVIS = 943.0 (E) BCON = -0.2300E-03(E) LTCUPBND=          LQVISTMP= 293.0 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1950 (E) AHC = 1229. (E) BHC =          LQVISTMP= 293.0 (E)
LQHTCPT= 2210. (E) LQHTCPTM= 293.0 (E) SFTNTEMP= 293.2          LQVISTMP= 293.0 (E)
LHCLOBND= 253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTEMP= 293.2          LQVISTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          AVCP =          AVCP =          AVCP =
BVP =          CVP =          VPUPRND=          VPLWRBND=          VPLWRBND=          VPLWRBND=          VPLWRBND=
BVCP = 647.0 (E) CVCP = -0.2700 (E) DVCP = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBND= 250.0 (E)
HTFUSION=          LHTVAPOR= 0.2973E+06(E) HTCONSTN= -0.4354E+08          HTDECONP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.400          UPFLMLIM=          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC= 500.0          INHALTME= 1800.          LOTOXLM= 0.5000E-03          UPTOXLM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GAV  CHEMNAME = GASOLINE: AVIATION (14.86G LEAD/GAL.)    PATHCODE = A  T  U  V  W
MOLEWT =          NBP = 344.0 (E) NFP = 297.6 (E) CRITTEMP=          CRITPRES=
DENSITY = 710.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO = 947.0 (E) BRHO = -0.9000 (E)
CRHO = 0.0000E+00(E) LDUPRBN= 353.0 (E) LDLWREND= 273.0 (E) LQVISPNT= 0.4200E-03(E) LQVISTMP= 293.0 (E)
AVIS = -11.00 (E) BVIS = 943.0 (E) LVUPRBN= 353.0 (E) LVLWRBN= 273.0 (E) LQTHRCND= 0.1280 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1950 (E) BCON = -0.2300E-03(E) LTCURBN= 363.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2210. (E) LQHTCPTM= 293.0 (E) AHC = 1229. (E) EHC = 3.350 (E) LHCUPBN= 333.0 (E)
LHCLOBND= 253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2      INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VPUPRBN=          VPLWRBN=          AVCP = -2972. (E)
BVCP = 647.0 (E) CVCP = -0.2700 (E) DVCP = 0.0000E+00(E) VHCUPBN= 600.0 (E) VHCLOBND= 250.0 (E)
HTFUSION=          LHTVAPOR= 0.2973E+06(E) HTCOMSTN= -0.4354E+08      HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.200      UPFLMLIM= 7.100      BURNRATE=
TOXINHAL=          INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GCM  CHEMNAME = GLYCIDYL METHACRYLATE      PATHCODE = A  T  U  X  Y  Z
MOLECW = 142.2  NBP =  NFP =  CRITTEMP=  CRITPRES=
DENSITY = 1073.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1073.  (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPREND= 303.0  (E) LDLWRBND= 283.0  (E) LQVISPAT= 0.5600E-02(E) LQVISTMP= 293.0  (E)
AVIS = -18.80  (E) BVIS = 4000.  (E) LVUPRBNBND= 303.0  (E) LVLWRBND= 283.0  (E) LQTHRCND= 0.1500  (E)
LTHCNTMP= 293.0  (E) ACON = 0.1500  (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0  (E) LTCLOBND= 283.0  (E)
LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0  (E)
LHCLOBND= 283.0  (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.4000E-01(E) INTFTMP= 293.0  (E)
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP =
BVP =  CVP =  VPUPRBNBND=  VPLWRBND=  AVCP = 0.2000E+06(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 400.0  (E) VHCLOBND= 300.0  (E)
HTFUSION=  LHTVAPOR=  HTCOMSTN= -0.2500E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR= -0.2000E+07(E) LOFLMLIM=  UPFLMLIM=  BURNRATE=
TOXINHAL= 25.00  INHALCNC=  INHALTME=  LOTOXLIN= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GCR  CHEMNAME = GLYCERINE
      MOLEWT = 92.10      NBP = 563.0      PATHCODE = A P Q
      DENSITY = 1261.     DENSTEMP= 293.2  SHPSTATE=L      CRITTEMP=
      CRHO = -0.1000E-02  LDUPRBND= 373.2  LDWRBND= 273.2  ARHO = 1349.
      AVIS =              BVIS =          LVUPRBND=          LQVISPNT=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=
      LQHTCPPT= 2604.     LQHTCPTM= 293.2  AHC = 1277.     BHC = 4.522
      LHCLOBND= 290.2     SURFTENS=      SFTNTMP=          INTFTENS=
      SOLUBPNT=          SOLUBTMP=      A =              B = 12.71
      BVP = 4117.         CVP = 0.4004E-01  VPUPRBND= 443.2  VPLWRBND= 333.2
      BVCP =             CVCP =          DVCP =          VHCUPBND=
      HTFUSION=          LHTVAPOR= 0.6699E+06  HTCOMBNTN= -0.1805E+08  HTSOLUTN= -0.2000E+05(E)
      HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.1500E-01(E)
      LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
      MOLFRAC =          FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

GLA CHEMNAME = GALLIC ACID PATHCODE = II SS

MOLEWT = 188.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1700.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISPNT=	LOVISIMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCLOBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTEMP=	INTFTIMP=
SOLUBPNT= 1.150	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VPUPREND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.1410E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
GOC  CHEMNAME = GAS OIL: CRACKED          PATHCODE = A  T  U
MOLEWT =      NBP      = 463.0 (E) NFP      =      CRITTEMP=      CRITPRES=
DENSITY = 800.0 (E) DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1090. (E) BRHO      = -1.000 (E)
CRHO      = 0.0000E+00(E) LDUPRND= 303.0 (E) LDWRSND= 273.0 (E) LQVISPT= 0.2750E-02 LQVISTMP= 311.2 (E)
AVIS      =      BVIS      =      LVUPRND=      LVLWRBND=      LQTHRCND= 0.1300 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.147C (E) BCON      = -0.5200E-04(E) LTCUPBND= 373.0 (E) LTCLOBND= 253.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC      = 897.0 (E) BHC      = 3.770 (E) LHCUPBND= 373.0 (E)
LHCLOBND= 253.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=      A      =      B      =      AVP      =
BVP      =      CVP      =      VPUPRND=      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4300E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 6.000      UPFLMLIN= 13.50      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
GPL  CHEMNAME = GASOLINE: POLYMER      PA:HCODE = A  T  U  V  W
MOLEWT =      NBP      = 287.0  (E) NFP      =      CRITTEMP=
DENSITY = 710.0  (E) DENSTEMP= 288.2      SHPSTATE=L      ARHO      = 947.0  (E) BRHO      = -0.9000  (E)
CRHO      = 0.0000E+00(E) LDUPREND= 353.0  (E) LDLWRBND= 273.0  (E) LQVISPNT= 0.4200E-03(E) LQVISTMP= 293.0  (E)
AVIS      = -11.00  (E) BVIS      = 943.0  (E) LVUPREND= 353.0  (E) LVLWRBND= 273.0  (E) LQTHRCND= 0.1280  (E)
LTHCNTMP= 293.0  (E) ACON      = 0.1950  (E) BCON      = -0.2300E-03(E) LTCUPBND= 363.0  (E) LTCLOBND= 273.0  (E)
LQHTCPPT= 2210.  (E) LQHTCPTM= 293.0  (E) AHC      = 1229.  (E) BHC      = 3.350  (E) LHCUPBND= 333.0  (E)
LHCLOBND= 253.0  (E) SURFTENS= 0.2100E-01(E) SFTNTEMP= 293.2      INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VPUPREND=      VPLWRBND=      AVCP      = -2972.  (E)
BVCP      = 647.0  (E) CVCP      = -0.2700  (E) DVCP      = 0.0000E+00(E) VHCUPBND= 600.0  (E) VHCLOBND= 250.0  (E)
HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCOMSTN= -0.4354E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM= 1.300      UPFLWLIM= 7.100      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIN= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX  =      ABFLMTMP=      MOLRATIO=      AIRFUEL  =      FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

GRF	CHEMNAME = GASOLINE BLENDING STOCKS: REFORMATS	PATHCODE = A	T	U	V	W
MOLEWT =	NEP = 287.0 (E) NFP =				CRITTEMP=	
DENSITY =	710.0 (E) DENSTMP= 286.2	SHPSSTATE=L			APHO =	CRITPRES=
CRHO =	0.0000E+00(E) LDUPRND= 353.0 (E) LDLWRBND= 273.0 (E) LOVISPAT=				APHO =	947.0 (E) BRHO = -0.9000 (E)
AVIS =	-11.00 (E) BVIS = 943.0 (E) LVUPRND= 353.0 (E) LVLWRBND=				LOVISPAT=	0.4200E-03(E) LQVISTMP= 293.0 (E)
LTHCNTMP=	293.0 (E) ACON = 0.1950 (E) BCON = -0.2300E-03(E) LTCUPBND=				LVLWRBND=	273.0 (E) LQTHRCND= 0.1280 (E)
LQHTCPPT=	2210. (E) LQHTCPTM= 293.0 (E) AHC = 1229. (E) BHC =				LTCUPBND=	363.0 (E) LTCLOBND= 273.0 (E)
LHCLOBND=	253.0 (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2				LHCUPBND=	333.0 (E)
SOLUBPNT=	SOLUBTMP=	A =			INTFTENS=	0.5000E-01(E) INTFTMP= 293.2
BVP =	CVP =	VPUPRND=			B =	AVP =
BVCP =	647.0 (E) CVCP = -0.2700 (E) DVCP = 0.0000E+00(E) VHCUPBND=				VPLWRBND=	AVCP = -2972. (E)
HTFUSION=	LHTVAPOR= 0.2973E+06(E) HTCOMBNTN= -0.4354E+08				VHCUPBND=	250.0 (E)
HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.100			HTDECOMP=	HTSOLUTN=
TOXINHAL=	INHALCNC= 500.0	INHALTME= 1800.			UPFLMLIM=	BURNRATE= 0.6667E-04
LAFETOX =	ABFLMTMP=	MOLRATIO=			LOTOXLIM=	UPTOXLIM= 0.5000E-02
MOLFRAC =					AIRFUEL =	FLMETEMP=

PATHCODE = A P

MOLECWt =	NBP	=	373.0	(E) NFP	=	266.0	(E) CRITTEMP=	CRITPRES=
DENSITY =	(E) DENSITY=	1090.	293.1	SHPSATE=L			ARHO =	(E) BRHO = -0.5000 (E
CRHO =	0.0000E+00(E)	LDUPRBND=	313.1	LDLWRBND=	273.1	LQVISPT=	0.4500E-02(E)	LQVISTMP= 293.1
AVIS =	BVIS	=		LVUPRBND=		LVLWRBND=		LQTHRCND=
LTHCTMP=	ACON	=		BCON	=	LTCUPBND=		LTCLOBND=
LQHTCPPT=	(E) LQHTCPTM=	2931.	293.1	AHC	=	2931.	(E) EHC	= 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND=	273.1	SURFTENS=	0.8000E-01(E)	SFTNTMP=	293.1	INTFTENS=	INTFTTMP=	
SOLUBPNT=	SOLUBTMP=			A	=	B	=	AVP =
BVP =	CVP	=		VFUPRBND=		VPLWRBND=		AVCP =
BVCP =	CVCP	=		DVCP	=	VHCUPBND=		VHCLOBND=
HTFUSION=	LHTVAPOR=			HTCOMSTN=		HTDECOMP=		HTSOLUTN=
HTREACTN=	HTPOLYMR=			LOFLMLIM=		UPFLMLIM=		BURNRATE=
TOXINHAL=	INHALCNC=			INHALTME=		LOTOXLIM=	0.5000E-03	UPTOXLIM= 0.5000E-02
LATEFOX =	ABFLWTMP=			MOLRATIO=		AIRFUEL =		FLMETEMP=
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HAC  CHEMNAME = HEXADECYLTRIMETHYLAMMONIUM CHLORIDE      PATHCODE = A  P
MOLECWT = 319.0      NBP = 355.5      NFP =
DENSITY = 900.0      (E) DENSTEMP= 298.1      SHPSTATE=L
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTRACNTN=
TOXINHAL=
LATETOX =
MOLFRAC =

LDUPRBND=
BVIS =
ACON =
LQHTCPTM=
SURFTENS=
SOLUBTMP=
CVP =
CVCP =
LHTVAPOR=
HTPOLYMR=
INHALCNC=
ABFLWTMP=

LOUPRBND=
LVUPRBND=
BCON =
AHC =
SFTNTMP=
A =
VFUPRBND=
DVCP =
HTCOMBTN=
LOFLMLIM=
INHALTME=
MOLRATIO=

LDLWRBND=
LVLRBND=
LTCUPBND=
SHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM= 2.000
LOTOXLIM=
AIRFUEL =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUIBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE= 0.3841E-04
UPTOXLIM= 0.5000E-03
FLMETEMP=
  
```

HAI										CHEMNAME = 2-HYDROXYETHYL ACRYLATE, INHIBITED										PATHCODE = A P Q Z									
MOLECWT =		116.1	NBP =		583.0	(E) NFP =		213.0	CRITTEMP=		CRITPRES=																		
DENSITY =		1100.	DENSTEMP=		298.1	SHPSTATE=L				ARHO =		1398.	(E) BRHO =		-1.000	(E)													
CRHO =		0.0000E+00(E)	LDUPRBND=		303.1	LDLWRBND=		273.1	LQVISPNT=		0.5700E-02(E)		LQVISTMP=		293.1														
AVIS =		-18.81	(E) BVIS =		4000.	(E) LVUPRBND=		298.1	LVLWRBND=		288.1		LQTHRCND=		0.1512	(E)													
LTHCNTMP=		293.1	ACON =		0.1512	(E) BCON =		0.0000E+00(E)	LTCUPBND=		298.1		LTCLOBND=		278.1														
LQHTCPTT=		2052.	LQHTCPTM=		293.1	AHC =		824.2	(E) BHC =		4.187		(E) LHCUPBND=		303.1														
LHCLOBND=		273.1	SURFTENS=		0.2800E-01(E)	SFTNTMP=		293.1	INTFTENS=				INTFTTMP=																
SOLUBPNT=			SOLUBTMP=			A =			B =				AVP =		7.744	(E)													
BVP =		1750.	(E) CVP =		-0.1500	(E) VFUPRBND=		363.1	VPLWRBND=		353.1		AVCP =																
BVCP =			CVCP =			DVCP =			VHCUPBND=				VHCLOBND=																
HTFUSION=			LHTVAPOR=			HTCOMSTN=		-0.2500E+08(E)	HTDECOMP=				HTSOLUTN=																
HTREACTN=			HTPOLYMR=		-0.5060E+06(E)	LOFLMLIM=			UPFLMLIM=				BURNRATE=																
TOXINHAL=			INHALCNC=			INHALTME=			LOTOXLIM=		0.5000E-04		UPTOXLIM=		0.5000E-03														
LATETOX =			ABFLMTMP=			MOLRATIO=			AIRFUEL =				FLMETEMP=																
MOLFRAC =																													

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HAS      CHEMNAME = HYDROXYLAMINE SULFATE      PATHCODE = SS
MOLECW = 164.1      NBP =
DENSITY = 1000.      (E) DENSTEMP = 293.1
CRHO =
AVIS =
LTHCNTMP =
LQHTCPPT =
LHCLOBND =
SOLUBPNT = 64.00
BVP =
BVCP =
HTFUSION =
HTREACTN =
TOXINHAL =
LATETOX =
MOLFRAC =

NFP =
SHPSTATE = S
LDLW#SND =
LVUP#SND =
BCON =
AHC =
SFTNTMP =
A =
VFUP#SND =
DVCP =
HTCOMSTN =
LOFLMLIM =
INHALTME =
ABFLMTMP =

CRITEMP =
ARHO =
LOVISPNT =
LVLWRBND =
LTCUPBND =
BHC =
INTFTENS =
B =
VPLWRBND =
VHCUPBND =
HTDECOMP =
UPFLMLIM =
LOTOXLIM =
MOLRATIO =

CRITPRES =
BRHO =
LOVISTMP =
LOTHRCND =
LTCLOBND =
LHCUPBND =
INTFTTMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-03
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
HBR  CHEMNAME = HYDROGEN BROMIDE
      MOLEWT = 80.92      NBP = 206.4      NFP =      CRITTEMP= 363.0      CRITPRES= 0.8520E+07
      DENSITY = 2140.      DENSTEMP= 206.1      SHPSTATE=L      ARHO = 3967.      BRHO = -8.850
      CRHO = 0.0000E+00      LDUPRND= 204.1      LDWRBND= 185.1      LOVISPNT=      LOVISTMP=
      AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 736.9      LQHTCPTM= 205.1      AHC = 736.9      BHC = 0.0000E+00      LHCUPBND= 208.1
      LHCLOBND= 198.1      SURFTENS= 0.2710E-01      SFTINTMP= 206.0      INTFTTMS=      INTFTTMP=
      SOLUBPNT= 193.0      SOLUBTMP= 298.1      A = 526.9      B = -1.120      AVP = 9.539
      BVP = 935.6      CVP = 0.5000E-01      VFUPRND= 263.1      VPLWRBND= 203.1      AVCP = 0.3019E+05
      BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 373.0      VHCLOBND= 273.0
      HTFUSION=      LHTVAPOR= 0.2150E+06      HTCOMSTN=      HTSOLUTN= 0.1030E+07
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL= 3.000      INHALCNC= 5.000      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HCC  CHEMNAME = HEXACHLOROCYCLOPENTADIENE      PATHCODE = A  X
      MOLEWT = 272.7      NBP = 512.0      NFP = 283.0      CRITTEMP=
      DENSITY = 1710.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 2122.      BRHO = -1.400
      CRHO = 0.0000E+00      LDUPRBND= 298.1      LDLWRBND= 273.1      LQVISP.T= 0.9350E-02      LQVISTMP= 293.1
      AVIS = -15.49      BVIS = 3170.      LVUPRBND= 313.1      LVLWRBND= 293.1      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCLOBND=      LTCUPBND=
      LQHTCPTP=      LOHTCPTM=      AHC =      BHC =      LHCUPBND=
      LHCLOBND=      SURFTENS= 0.3750E-01      SFTNTEMP= 293.1      INTFTTMS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      E =      AVP = 10.36
      BVP = 2744.      CVP = -0.1500      VFUPRBND= 513.1      VPLWRBND= 373.1      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.1800E+06(E)      HTCO:STN=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL= 0.1000      INHALCNC=      INHALTME=      LOTCXLM= 0.5000E-03      UPTOXLIM= 0.5000E-02
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HCL  CHEMNAME = HYDROCHLORIC ACID          PATHCODE = A  P
MOLEWT =      NBP =      323.8      NFP =      CRITTEMP=
DENSITY = 1190.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1317.
CRHO = 0.0000E+00  LDUPRBND= 373.2  LDWRBND= 273.2  LQVISPNT=
AVIS =      BVIS =      LVUPRBND=      LQVHRBND=
LTHCNTNP=      ACON =      BCON =      LTCUPBND=
LOHTCPPT= 2093.  LOHTCPTM= 293.2  AHC = -3201.  BHC = 18.00
LHCLOBND= 273.2  SURFTENS=      SFTNTMP=      INTFTNS=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.49
BVP = 2100.  CVP = 0.4004E-01  VEUPRBND= 313.2  VPLWRBND= 283.2
BVCP = 0.0000E+00  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND= 500.0
HTFUSION=      LHTVAPOR= 0.3000E+06(E)  HTCOMBNTN=      HTSOLUTN= -0.6000E+05(E)
HTRACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=
TOXINHAL= 5.000  INHALCNC=      INHALTME=      LOTOXLIM=
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO = -0.5000
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND= 333.2
INTFTTMP=
AVP = 11.49
AVCP = 0.2922E+05
VHCLOBND= 250.0
HTSOLUTN= -0.6000E+05(E)
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HCN  CHEMNAME = HYDROGEN CYANIDE
      PATHCODE = A  B  C  K  L  M  N
MOLEWT = 27.03      NBP = 298.9      CRITTEMP= 456.7      CRITPRES= 0.5070E+07
DENSITY = 689.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1070.      BRHO = -1.300
CRHO = 0.0000E+00      LDUPRND= 298.2      DLWRND= 253.2      LQVISPNT= LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND= LTCLOBND=
LQHTCPPT= 2646.      LQHTCFTM= 293.2      AHC = 2194.      BHC = 1.549      LHCUPBND= 323.2
LHCLOBND= 263.2      SURFTENS=      SFTNTMP=      INTFTENS= INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.916
BVP = 1467.      CVP = 0.4004E-01      VFUPRND= 323.2      VPLWRND= 261.2      AVCp = 0.2110E+05
BVCP = 61.76      CVCP = -0.3977E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSICN= 0.2638E+06      LHTVAPOR= 0.1034E+07      HTCOMSTN= -0.2455E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 5.600      UPFLMLIM= 40.00      BURNRATE= 0.3000E-04
TOXINHAL= 10.00      INHALCNC= 20.00      INHALTME= 1800.      LOTOXLM= 0.5000E-04(E) UPTOXLM=
LATETOX =      ABFLMTMP=      MOLRATIO= 1.125      (E) AIRFUEL = 6.350      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HOC  CHEMNAME = HYDROGEN CHLORIDE          PATHCODE = A  C  K  M  N  O
MOLEWT = 36.46      NBP = 188.2      CRITTEMP= 324.6      CRITPRES= 0.8270E+07
DENSITY = 1191.     DENSTEMP= 188.2  SHPSTATE=L      ARHO = 1736.     BRHO = -2.900
CRHO = 0.0000E+00  LDUPRND= 253.2    LDLWRND= 193.2    LOVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPT= 1760.     (E) LOHTCPTM= 185.0  (E) AHC = 1760.  (E) BHC = 0.0000E+00(E) LHCUPBND= 195.0  (E
LHCLGBND= 175.0  (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.554
BVP = 856.0      CVP = 0.4004E-01  VFUPRND= 243.2      VPLWRBND= 173.2      AVCP = 0.2922E+05
BVCP = 0.0000E+00  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4312E+06  HTCOMBNTN=      HTDECOMP=      HTSOLUTN= -0.2056E+07
HTREACTN= -0.2056E+07  HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 5.000      INHALCNC= 5.000      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HDQ  CHEMNAME = HYDROQUINONE                PATHCODE = SS
      MOLEWT = 110.1      NBP = 558.0      NFP = 443.0
      DENSITY = 1330.      DENSTEMP = 293.1      SHPSTATE=S
      CRHO =              LDUPREND=
      AVIS =              BVIS =
      LTHCNTMP=          ACON =
      LHCTCPPT=          LHCTCPTM=
      LHCLOBND=          SURFTENS=
      SOLUBPNT= 7.000      SOLUBTMP= 293.1      A =
      BVP =              CVP =
      BVCP =              CVCP =
      HTFUSIGN=          LHTVAPOR=
      HTREACTN=          HTPOLYMR=
      TOXINHAL= 0.4070      INHALCNC=
      LATETOX =          ABFLMTMP=
      MOLFRAC =
      CRITPRES=
      BRHO =
      LOVISIMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTIMP=
      AVP =
      AVCp =
      VHCLOBND=
      HTSOLUTN=
      BURNRATE=
      UPTOXLIM= 0.5000E-04      0.5000E-03
      FLMETEMP=
      CRITTEMP=
      ARHO =
      LOVISPNT=
      LVLWRBND=
      LTCUPBND=
      BHC =
      INTFTENS=
      B =
      VPLWRBND=
      VHCUPBND=
      HTDECONP=
      UPFLMLIN=
      LOTOXLIM=
      AIRFUEL =
      HTCOMBNTN= -0.2600E+08
      LOFLMLIM=
      INHALTME=
      MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S₁ SYSTEM OF UNITS

```

*****
HDS  CHEMNAME = HYDROGEN SULFIDE      PATHCODE = A  B  C  D  E  F  G
MOLECW = 34.08      NSP = 212.8      NFP = 190.4      CRITTEMP = 373.6      CRITPRES = 0.9010E+07
DENSITY = 916.0      DENSTEMP = 213.2      SHPSTATE=L      ARHC = 1212.      BRHO = -1.400
CRHO = 0.0000E+00      LDUPRBND = 273.2      LDLWRBND = 213.2      LQVISPNT = 0.5100E-03      LOVISTMP = 193.2
AVIS =              BVIS =              LVUPRBND =              LVLWRBND =              LOTHRCND =
LTHCNTMP =          ACON =              BCON =              LTCUPBND =              LTCLOBND =
LQHTCPPT = 1800.      (E) LQHTCPTM = 212.0      (E) AHC = 1800.      (E) EHC = 0.0000E+00(E)      LHCUPBND = 222.0      (E)
LHCLOBND = 202.0      (E) SURFTENS = 0.3000E-01(E)      SFTNTEMP = 212.0      (E) INTFTENS =              INTFTTMP =
SOLUBPNT =          SOLUBTMP =              A =              B =              AVP = 9.559
BVP = 970.0      CVP = 0.4004E-01      VFUPRBND = 283.2      VPLWRBND = 208.2      AVCP = 0.3161E+05
BVCP = 5.024      CVCP = 0.1256E-01      DVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 250.0
HTFUSION = 0.6992E+05      LHTVAPOR = 0.5443E+06      HTCORSTN = -0.1524E+08      HTDECOMP =              HTSOLUTN =
HTREACTN =          HTPOLYMR =              LOFLMLIM = 4.300      UPFLMLIM = 45.00      BURNRATE = 0.3833E-04
TOXINHAL = 10.00      INHALCNC =              INHALTME =              LOTOXLM =              UPTOXLM =
LATETOX =          ABFLMTMP =              MOLRATIO = 1.250      (E) AIRFUEL = 6.040      (E) FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HDZ		CHEMNAME = HYDRAZINE		PATHCODE = A P Q	
MOLEWT =	32.05	NBP =	386.7	NFP =	274.7
DENSITY =	1008.	DENSTMP =	293.2	SHPSSTATE=L	
CRHO =	0.0000E+00	LDUPRBND =	333.2	LDLWRBND =	278.2
AVIS =		BVIS =		LVUPRBND =	
LTHCNTMP =		ACON =		BCON =	
LQHTCPPT =	3081.	LQHTCPTM =	293.2	AHC =	2406.
LHCLOBND =	274.7	SURFTENS =		SFTNIEMP =	
SOLUBPNT =		SOLUBTMP =		A =	
BVP =	2248.	CVP =	0.4004E+01	VFUPRBND =	353.2
BVCP =	205.4	CVCP =	-0.1444	DVCP =	0.0000E+00
HTFUSION =	0.3952E+06	LHTVAPOR =	0.1252E+07	HTCOMBTN =	-0.1941E+08
HTREACTN =		HTPOLYMR =		LOFLMLIM =	4.700
TOXINHAL =	1.000	INHALCNC =	1.000	INHALTME =	1800.
LAFETOX =		ABFLMTMP =		MOLRATIO =	
MOLFRAC =					
				CRITTEMP =	653.0
				ARHO =	1263.
				LQVISPNT =	
				LQTHRCND =	
				LTCLOBND =	
				LHCUPBND =	393.2
				INTFTTMP =	
				AVP =	10.82
				AVCP =	4187.
				VHCLOBND =	250.0
				HTSOLUTN =	-0.5066E+06
				BURNRATE =	0.1667E-04
				UPTOXLIM =	0.5000E-03
				FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HFA  CHEMNAME = HYDROFLUORIC ACID          PATHCODE = A  P
MOLEWT =      NBP      = 340.0      NFP      =
DENSITY = 1258.      DENSTEMP= 298.2      SHPSTATE=L
CRHO    = 0.0000E+00      LDUPRBND= 303.2      LDWRBND= 263.2      CRITPRES=
AVIS    =      BVIS    =      ACON    =      BCON    =      LVCUPBND=      LTCLOBND=
LTHCNTMP=      LQHTCPTM= 3140.      AHC      = 643.4      BHC      = 8.374      LHCUPBND= 303.2
LHCLOBND= 273.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VUPRBND=      VPLWRBND=      AVCP      = 0.2914E+05
BVCP      = 0.0000E+00      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4000E+06(E)      HTCOMBNTN=      HTDECOMP=      HTSOLUTN= -0.7000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL= 3.000      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX  =      ABFLMTMP=      MOLRATIO=      AIRFUEL  =      FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HFX  CHEMNAME = HYDROGEN FLUORIDE      PATHCODE = A  C  K  M  N  O
MOLECWT = 20.01      NBP = 292.7      NFP = 181.0      CRITTEMP= 503.8      CRITPRES= 0.7580E+07
DENSITY = 992.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1402.      BRHO = -1.400
CRHO = 0.0000E+00      LDUPRND= 293.2      LDWRBND= 253.2      LOVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 3000.      (E) LQHTCPTM= 283.0      (E) AHC = 3000.      (E) BHC =      0.0000E+00(E) LHCUPBND= 293.0      (E
LHCLOBND= 273.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.519
BVP = 1317.      CVP = 0.4004E-01      VFUPRND= 273.2      VPLWRBND=      VHCUPBND= 213.2      AVCP = 0.2914E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCLOBND= 600.0      VHSOLUTN= -0.3076E+07
HTFUSION=      LHTVAPOR= 0.3370E+06      HTCOMBNTN=      HTDECOMP=      BURNRATE=
HTREACTN= -0.3076E+07      HTPOLYMR=      LOFLMLIM=      UPTOXLIM=
TOXINHAL= 3.000      INHALCNC= 3.000      INHALTME= 900.0      LOTOXLIM=      FLMETEMP=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HMI		CHEMNAME = HEXAMETHYLENEIMINE		PATHCODE = A P Q	
MOLECW	= 99.00	NBP	= 405.0	NFP	=
DENSITY	= 880.0	DENSTEMP	= 293.1	SHPSIATE=L	
CRHO	= 0.0000E+00(E)	LDUPREND	= 298.1	LDLWRBND	= 278.1
AVIS	=	BVIS	=	LVUPRSND	=
LTHCNTMP	=	ACON	=	BCON	=
LOHTCPPT	=	LOHTCPTM	=	AHC	=
LHCLOBND	=	SURFTENS	=	SFTNTMP	=
SOLUBPNT	= 5.000	(E) SOLUBTMP	= 293.1	A	=
BVP	= 2228.	CVP	= -0.1500	VFUPRSND	= 405.1
BVCP	=	CVCP	=	DVCP	=
HTFUSIGN	=	LHTVAPOR	=	HTCONSTN	=
HTREACTN	=	HTPOLYMR	=	LOFLVLIM	= 1.600
TOXINHAL	=	INHALCNC	=	INHALTWE	=
LATETOX	=	ABFLMTMP	=	MOLRATIO	=
MOLFRAC	=				
				CRITTEMP	=
				ARHO	= 1173.
				CRITPRES	=
				(E) BRHO	= -1.000 (E)
				LQVISTMP	=
				LQTHRCND	=
				LTCLOBND	=
				LHCUPBND	=
				INTFTTMP	=
				AVP	= 10.51
				AVCP	=
				VHCLOBND	=
				HTSOLUTN	=
				BURNRATE	=
				UPTOXLIM	= 0.5000E-04(E)
				FLMETEMP	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HMT CHEMNAME = HEXAMETHYLENETETRAMINE

PATHCODE = SS

MOLEWT = 140.2	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1350.	DENSTEMP = 293.2	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A = 15.44	B = 0.2400	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN = -0.3098E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HPA	CHEMNAME = HYDROXYPROPYL ACRYLATE	PATHCODE = A P Q Z		
MOLEWT = 130.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1060.	DENSTEMP = 298.1	SHPSATE = L	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LOVISPT =	LOVISIMP =
AVIS =	BVIS =	LVUPRND =	LVLRND =	LOTHRCND =
LHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPSND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTES =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VFUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONBTN = -0.2870E+08 (E)	HTDECONP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLM = 1.800	UPFLWLM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HPO  CHEMNAME = HYDROGEN PEROXIDE          PATHCODE = A  P  Z
MOLECW = 34.01  NBP = 398.0  NFP = 232.9  CRITTEMP =  CRITPRES =
DENSITY = 1290.  DENSTEMP = 293.2  SHPS:ATE=L  ARHO = 1593.  BRHO = -1.0000
CRHO = 0.0000E+00  LDUPREND = 303.2  LDWRBND = 273.2  LOVISPNT =  LOVISTMP =
AVIS =  BVIS =  LVUPRBND =  LVLRBND =  LQTHRCND =  LTCLOBND =
LTHCNTMP =  ACCN =  BCON =  SFTNTEMP =  INTFTMP =
LQHTCPPT = 3182.  LQHTCPTM = 293.2  AHC = 3182.  SHC = 0.0000E+00  LHCUPBND = 303.2
LHCLOBND = 283.2  SURFTENS =  SOLUBTMP =  A =  B =  AVP = 10.98
SOLUBPNT =  BVP = 2394.  CVP = 0.400-E-01  VFUPRBND = 363.2  VPLWRBND = 273.2  AVCP = 0.2077E+05
BVCP = 91.90  CVCP = -0.5652E-01  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
HTFUSION =  LHTVAPOR = 0.1514E+07(E)  HTCOM:STN =  HTDECOMP = -0.2830E+07  HTSOLUTN = -0.4689E+05
HTREA:CTN = -0.4689E+05  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE =
TOXINHAL = 1.000  INHALCNC =  INHALTIME =  LOTOXLIN =  UPTOXLIN =
LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HPT      CHEMNAME = HEPTANE
MOLECWT = 100.2      NBP      = 371.6      PATHCODE = A T U V W
DENSITY = 683.8      DENSTEMP= 293.2      NFP      = 182.6      CRITTEMP= 540.0      CRITPRES= 0.2758E+07
CRHO     = 0.0000E+00 LDUPRND= 353.2      LDWRBND= 273.2      LDWRBND= 353.2      LQVISPAT= 0.4180E-03      LQVISTMP= 293.2
AVIS     = -10.99     BVIS     = 943.0      LVUPRND= 353.2      LVLRBND= 273.2      LQTHRCND= 0.1279
LTHCNTMP= 293.2      ACCN     = 0.1961      BCON     = -0.2326E-03      LTCUPBND= 363.2      LTCLOBND= 273.2
LQHTCPPT= 2211.      LQHTCPTM= 293.2      AHC      = 1229.      BHC      = 3.349      LHCUPEND= 333.2
LHCLOBND= 253.2      SURFTENS= 0.1930E-01      SFTNTMP= 293.2      INTFTENS= 0.4000E-01(E)      INTFTTMP= 293.0 (E)
SOLUBPNT=           SOLUBTMP=           A      =           B      =           AVP      = 9.027
BVP      = 1268.      CVP      = -56.26      VFUPRND= 403.2      VPLWRBND= 253.2      AVCP      = -2973.
BVCP     = 646.9      CVCP     = -0.2680      DVCP     = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=           LHTVAPOR= 0.3166E+06      HTCOMBTN= -0.4459E+08      HTDECGRP=           HTSOLUTN=
HTREACTN=           HTPOLYMR=           LOFLWLIM= 1.000      UPFLWLIM= 7.000      BURNRATE= 0.1133E-03
TOXINHAL= 500.0      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.1500E-01(E)      UPTOXLIM=
LAFETOX =           ABFLMTMP=           MOLRATIO=           AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

HSS  CHEMNAME = HEXADECYL SULFATE, SODIUM SALT      PATHCODE = A  P
      MOLECW = NBP =
      DENSITY = 1000. DENSTEMP = 293.1
      CRHO = LDUPRND =
      AVIS = BVIS =
      LTHCNTMP = ACON =
      LOHTCPPT = LOHTCPTM =
      LHCLOBND = SURFTENS =
      SOLUBPNT = SOLUBTMP =
      BVP = CVP =
      BVCP = CVCP =
      HTFUSIGN = LHTVAPOR =
      HTREACTN = HTPOLYMR =
      TOXINHAL = INHALCNC =
      LATETOX = ABFLMTMP =
      MOLFRAC =

      CRITPRES =
      BRHO =
      LOVISTMP =
      LOTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM =
      FLMETEMP =

      CRITTEMP =
      ARHO =
      LOVISPNT =
      LVLWRBND =
      LTCUPBND =
      BHC =
      INTFTENS =
      B =
      VPLWRBND =
      VHCUPBND =
      HTDECOMP =
      UPFLMLIM =
      LOTOXLIM =
      AIRFUEL =

```

PATHCODE = 11

(E) CRITTEMP=

ΔΡΗΟ
=

LCVISPNT=

LVLWRBND=

LTCUPB1.D=

"CS"

INTFTEPS=

11

၁၅

VP LWRG.C =

VHCUPBND=

HTDECOMP=

UPFLMLIM=

LOTOXLIM=

AIRFUEL =

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

6 OF 10
ADA
034607

6 OF 10 ADA- 034607		1 1/1/2000	
---------------------------	--	---	--

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HTE CHEMNAME = 1-HEPTENE

PATHCODE = A T U V W

MOLEWT = 98.18	NBP = 366.8	NFP = 154.0	CRITTEMP = 537.3	CRITPRES = 0.2890E+07
DENSITY = 697.0	DENSTEMP = 293.2	SHPSRATE=L	ARHO = 955.4	BRHO = -0.8800
CRHO = 0.0000E+00	LDUPREND = 363.2	LDLWRSD = 273.2	LQVISPD = 0.3500E-03	LQVISTMP = 293.2
AVIS = -10.86	BVIS = 851.3	LVUPRSD = 363.2	LVLWRSD = 273.2	LQTHCND = 0.1419
LTHCNTMP = 293.2	ACON = 0.2953	BCON = -0.5233E-03	LTCUPBD = 333.2	LTCLOBND = 253.2
LQHTCPT = 2152.	LQHTCPTM = 293.2	AHC = 1193.	BHC = 3.266	LHCUPBND = 353.2
LHCLOBND = 253.2	SURFTENS = 0.2050E-01	SFTNTMP = 293.2	INTFTENS = 0.5000E-01(E)	INTFTMP = 293.0 (E
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.025
BVP = 1258.	CVP = -53.96	VFUPRSD = 373.2	VPLWRSD = 253.2	AVCP = 0.1424E+05
BVCP = 527.1	CVCP = -0.1800	DVCP = 0.0000E+00	VHCUPBD = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3195E+06	HTCOM3TN = -0.4507E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.000	UPFLMLIM =	BURNRATE = 0.1067E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HTN      CHEMNAME = HEPTANOL      PATHCODE = A T U
MOLEWT = 116.2      NBP = 449.0      NFP = 239.0      CRITTEMP= 633.0      CRITPRES= 0.3000E+07
DENSITY = 822.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1068.      BRHO = -0.8400
CRHO = 0.0000E+00      LDUPRND= 373.2      LDWRBND= 273.2      LOVISPNT= 0.7010E-02      LQVISTMP= 293.2
AVIS = -15.32      BVIS = 3037.      LVUPRND= 333.2      LVLWRBND= 283.2      LQTHRCND= 0.1337
LTHCNTMP= 293.2      ACON = 0.1571      BCON = -0.8141E-04      LTCUPBND= 373.2      LTCLOBND= 253.2
LOHTCPPT= 2081.      LOHTCPTM= 293.2      AHC = -496.7      BHC = 8.792      LHCUPEND= 393.2
LHCLOBND= 253.2      SURFTENS= 0.2620E-01      SFTNTMP= 288.2      INTFTENS= 0.4000E-01(E)      INTFTTMP= 288.0 (E)
SOLUBPNT=      SOLUBTMP=      A = 0.2944E-01      B = 0.2400E-03      AVP = 11.38
BVP = 2864.      CVP = 0.4004E-01      VFUPRND= 443.2      VPLWRBND= 313.2      AVCP = 0.2453E+05
BVCP = 568.6      CVCP = -0.1717      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4396E+06      HTCONSTN= -0.3678E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIN=      UPFLMLIN=      BURNRATE= 0.5333E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HXA  CHEMNAME = HEXANE
      MOLEWT = 86.17      NBP = 341.9      PATHCODE = A T U V W
      DENSITY = 659.0     DENSTEMP= 293.2   SHPSIATE=L      CRITTEMP= 507.4      CRITPRES= 0.3010E+07
      CRHO = 0.0000E+00   LDUPRND= 338.2   LDUPRND= 338.2   LDUPRND= 338.2   ARHO = 937.5      BRHO = -0.9500
      AVIS = -9.042      BVIS = 285.0   LVUPRND= 338.2   LVUPRND= 338.2   LOVISPT= 0.3130E+03   LOVISTMP= 293.2
      LTHCNTMP= 293.2     ACON = 0.1938   BCON = -0.2326E-03   LTCUPBND= 333.2   LTCLOBND= 283.2
      LQHTCPPT= 2261.     LQHTCPTM= 293.2   AHC = 1033.      BHC = 4.187      LMCUPBND= 373.2
      LHCLOBND= 253.2     SURFTENS= 0.1840E-01   SFTNTMP= 293.2   INTFTENS= 0.5110E+01   INTFTMP= 293.2
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.003
      BVP = 1172.         CVP = -48.76   VFUPRND= 373.2   VPLWRBND= 253.2   AVCP = 0.1298E+05
      BVCP = 481.3        CVCP = -0.1486   DVCP = 0.0000E+00   VHCUPBND= 600.0   VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.3349E+06   HTCOMBTN= -0.4477E+08   HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.200      HTSOLUTN=
      TOXINHAL= 500.0     INHALCNC= 500.0   INHALTME= 1800.   UPFLMLIM= 7.700      BURNRATE= 0.1217E-03
      LATETOX =          ABFLMTMP=          MOLRATIO=          LOTOXLIM=
      MOLFRAC =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

HXE CHEMNAME = 1-HEXENE

MOLECW = 84.16	NBP = 336.7	NFP = 133.4	CRITTEMP = 504.0	CRITPRES = 0.3170E+07
DENSITY = 673.0	DENSTEMP = 293.2	SHPSATE=L	ARHO = 951.5	BRHO = -0.9500
CRHO = 0.0000E+00	LDUPRND = 333.2	LDLWRND = 273.2	LOVISPNT = 0.2600E-03	LQVISTMP = 293.2
AVIS = -10.87	BVIS = 766.0	LVUPRND = 333.2	LVLWRND = 293.2	LOTHRCND = 0.1337
LTHCNTMP = 293.2	ACON = 0.2840	BCON = -0.5117E-03	LTCUPBND = 333.2	LTCLOBND = 253.2
LQHTCPPT = 2169.	LQHTCPTM = 293.2	AHC = 1210.	BHC = 3.266	LHCUPBND = 353.2
LHCLOBND = 253.2	SURFTENS = 0.1880E-01	SFTNTMP = 293.2	INTFTENS = 0.5000E-01(E)	INTFTMP = 298.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 8.991
BVP = 1153.	CVP = -47.36	VFUPRND = 373.2	VPLWRND = 253.2	AVCP = 0.1181E+05
BVCP = 451.3	CVCP = -0.1570	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3349E+06	HTCOMSTN = -0.4451E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.200	UPFLMLIM =	BURNRATE = 0.1350E-03
TOXINHAL = 500.0	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HGX  CHEMNAME = HEXYLENE GLYCOL          PATHCODE = A  P  Q

MOLECWT = 118.2  NBP = 470.0  NFP = 223.0  CRITTEMP= 673.0  CRITPRES= 0.3420E+07
DENSITY = 923.0  DENSTEMP= 293.2  SHPSRATE=L  ARHO = 1181.  BRHO = -0.8800
CRHO = 0.0000E+00  LDUPREND= 373.2  LDLRBND= 273.2  LQVISPNT=  LQVISIMP=
AVIS =  BVIS =  LVUPREND=  LVLWREND=  LQTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 1842.  LQHTCPTM= 293.2  AHC = 614.8  BHC = 4.187  LHCUPBND= 303.2
LHCLOBND= 273.2  SURFTENS=  SFTNTEMP=  INTFTENS=  INTFTIMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 11.82
BVP = 3173.  CVP = 0.4004E-01  VFUPREND= 413.2  VPLWRBND= 293.2  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.4354E+06  HTCOWSTN= -0.3160E+08(E)  HTDECOMP=  HTSOLUTN= -0.2500E+05(E)
HTREACTN=  HTPOLYMR=  LOFLMLIM= 1.200  UPFLMLIM= 8.100  BURNRATE=
TOXINHAL= 75.00  (E)  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HXXN  CHEMNAME = HEXANOL
      MOLECW = 102.2  NBP = 430.3  NFP = 228.6  CRITTEMP = 610.2  CRITPRES = 0.3340E+07
      DENSITY = 850.0  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1201.  BRHO = -1.200
      CRHO = 0.0000E+00  LDUPRND = 373.2  LDLWRND = 273.2  LQVISPT = 0.4370E-03  LQVISTMP = 298.2
      AVIS = -16.85  BVIS = 2717.  LVUPRND = 343.2  LVLWRND = 273.2  LOTHRCND = 0.1337
      LTHCNTMP = 293.2  ACON = 0.1508  BCON = -0.5815E-04  LTCUPBND = 373.2  LTCLOBND = 253.2
      LOHTCPPT = 2139.  LOHTCPTM = 293.2  AHC = -683.6  BHC = 9.630  LHCUPBND = 393.2
      LHCLOBND = 253.2  SURFTENS = 0.2450E-01  SFTNTMP = 293.2  INTFTENS = 0.4000E-01(E)  INTFTTMP = 288.0 (E)
      SOLUBPNT =  SOLUBTMP =  A = 2.692  B = -0.7000E-02  AVP = 8.139 (E)
      BVP = 1377. (E)  CVP = 0.0000E+00(E)  VFUPRND = 433.0 (E)  VPLWRND = 293.2  AVCP = 0.2286E+05
      BVCP = 489.2  CVCP = -0.1444  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION =  LHTVAPOR = 0.4857E+06  HTCONSTN = -0.3910E+08  HTDECOMP =  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLWLM = 1.200  UPFLWLM = 7.700  BURNRATE =
      TOXINHAL =  INHALCNC =  INHALTME =  LOTXCLIM = 0.5000E-03  UPTOXCLIM = 0.5000E-02
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
HXX  CHEMNAME = HYDROGEN, LIQUEFIED      PATHCODE = A  B  C  D  E  F  G
MOLEWT = 2.000      NBP = 20.00      CRITPRES= 0.1300E+07
DENSITY = 71.00      DENSTEMP= 20.15      BRHO = -1.100
CRHO = 0.0000E+00      LDUPREND= 21.15      LOVISPT= 0.1340E+04      LQVISTMP= 20.15
AVIS = -12.56      BVIS = 26.70      LVUPRND= 23.15      LVLWRB'D= 15.15      LQTHRCND= 0.1163
LTHCNTMP= 20.15      ACON = 0.6990E-01      BCON = 0.2326E-02      LTCUPBND= 25.15      LTCLOBND= 19.15
LOHTCPT= 2386.      LQHTCPTM= 20.15      AHC = 2386.      BHC = 0.0000E+00      LHCUPBND= 23.15
LHCLOBND= 18.15      SURFTENS= 0.2300E-01      SFTNTMP= 18.15      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 7.480
BVP = 50.10      CVP = -0.1500      VFUPRND= 23.15      VPLWRB'D= 14.15      AVCP = 0.2931E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPB'D= 400.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4427E+06      HTCOMSTN= -0.1164E+09      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 4.000      UPFLMLIM= 75.00      BURNRATE= 0.1653E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP= 2497.      (E) MOLRATIO= 1.500      (E) AIRFUEL = 34.32      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

IAA  CHEMNAME = ISOAMYL ALCOHOL      PATHCODE = A  P  O  T  U
MOLEWT = 88.15      NBP = 405.0      CRITTEVP= 580.0      CRITPRES=
DENSITY = 810.0      DENSTEMP= 293.2      SHPSATE=L      ARHO = 1076.      BRHO = -0.9000
CRHO = 0.0000E+00      LDUPRBND= 323.2      LDLWRBND= 273.2      LQVISPNT= 0.3860E-02      LQVISTMP= 297.0
AVIS = -14.69      BVIS = 2712.      LVUPRBND= 303.2      LVLWRBND= 273.2      LQTHRCND= 0.1721
LTHCNTMP= 293.2      ACON = 0.1721      BCON = 0.0000E+00      LTCUPBND= 323.2      LTCLOBND= 273.2
LQHTCPPT= 2294.      LQHTCPTM= 293.2      AHC = -651.4      BHC = 10.05      LHCUPBND= 373.2
LHCLOBND= 273.2      SURFTENS= 0.2380E-01      SFTNTEMP= 293.2      INTFTENS= 0.5000E-02      INTFTTMP= 291.2
SOLUBPNT= 2.750      SOLUBTMP= 293.2      A = 12.12      B = 12.12      AVP = 12.12
BVP = 2831.      CVP = 0.4004E-01      VFUPRBND= 373.2      VPLWRBND= 273.2      AVCP = 0.2090E+05(E
BVCP = 496.0      (E) CVCP = -0.2720      (E) DVCP = 0.0000E+00(E)      VHCUPBND= 600.0      (E) VHCLOBND= 300.0      (E
HTFUSION=      LHTVAPOR= 0.5016E+06      HTCOWBNT= -0.3768E+08      HTDECOMP=      HTSOLUTN= -0.1327E+06
HTREACTN= -0.1327E+06      HTPOLYMR=      LOFLMLIM= 1.200      UPFLMLIM= 9.000      BURNRATE= 0.6000E-04
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IAC  CHEMNAME = ISOPROPYL ACETATE      PATHCODE = A  P  O  R  S
MOLECWT = 102.1      NBP      = 361.7      NFP      = 203.9      CRITTEMP= 538.0      CRITPRES= 0.3650E+07
DENSITY = 874.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1228.      BRHO      = -1.200
CRHO      = 0.0000E+00      LDUPRBD= 303.2      LDLWRBD= 273.2      LQVISPNT= 0.4900E-03      LQVISTMP= 293.2
AVIS      = -10.96      BVIS      = 981.0      LVUPRBD= 353.2      LVLWRBD= 263.2      LQTHRCND= 0.1454
LTHCNTMP= 293.2      ACON      = 0.3095      BCON      = -0.5582E-03      LTCUPBD= 343.2      LTCLOBND= 253.2
LQHTCPPT= 2031.      LQHTCPTM= 293.2      AHC      = 1171.      BHC      = 2.931      LHCUPBND= 363.2
LHCLOBND= 253.2      SURFTENS= 0.2600E-01      SFTNTMP= 293.2      INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.0      (E)
SOLUBPNT= 2.900      SOLUBTMP= 293.2      A      =      B      =      AVP      = 9.198
BVP      = 1243.      CVP      = -65.16      VFUPRBD= 393.2      VPLWRBD= 263.2      AVCP      = 4350.      (E)
BVCP      = 457.0      (E)      CVCP      = -0.1970      (E)      DVCP      = 0.0000E+00(E)      VHCUPBND= 500.0      (E)      VHCLOBND= 300.0      (E)
HTFUSION=      LHTVAPOR= 0.3391E+06      HTCOMSTN= -0.3100E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.800      UPFLMLIM= 8.000      BURNRATE
TOXINHAL= 250.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IAI CHEMNAME = ISODECYL ACRYLATE, INHIBITED

PATHCODE = A T U Z

MOLEWT = 212.4	NBP =	173.0	CRITTEMP =		CRITPRES =	
DENSITY = 885.0	DENSTEMP = 293.1	SHPSTATE=L	ARHO =	1178.	(E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPRND = 298.1	LDLWRBND =	LOVISPNT =	0.2320E-02	LOVISTMP =	293.1
AVIS = -14.40	BVIS = 2450.	LVUPRND =	LVLWRBND =	273.1	LQTHRCND =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512 (E)	BCON = 0.0000E+00(E)	LTCUPBND =	298.1	LTCLOBND =	278.1
LQHTCPPT = 1926.	LQHTCPTM = 293.1	AHC = 698.6 (E)	BHC =	4.187 (E)	LHCUPBND =	303.1
LHCLOBND = 273.1	SURFTENS = 0.3000E-01(E)	SFTNTMP = 293.1	INTFTENS =	0.3000E-01(E)	INTFTTMP =	293.1
SOLUBPNT = 0.1000E-01(E)	SOLUBTMP = 293.1	A =	B =		AVP =	8.925 (E)
BVP = 2200. (E)	CVP = -0.1500 (E)	VFUPRND = 443.1	VPLWRBND =	423.1	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =		VHCLOBND =	
HTFUSION =	LHTVAPOR = 0.2600E+06	HTCOMSTN = -0.3800E+08(E)	HTDECOMP =		HTSOLUTN =	
HTREACTN =	HTPOLYMR = -0.2800E+06(E)	LOFLMLIM =	UPFLMLIM =		BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	0.5000E-02	UPTOXLIM =	0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =		FLMETEMP =	
MOLFRAC =						

PATHCODE = A P Q

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IAM      CHEMNAME = ISOBUTYLAMINE
      MOLECW = 73.10      NBP = 340.6      PATHCODE = A P Q R S
      DENSITY = 739.0      DENSTEMP = 293.1      SHPSTATE=L      CRITTEMP = 516.2      CRITPRES = 0.4300E+07
      CRHO = 0.0000E+00      LDUPREND = 303.1      LDWRBND = 273.1      LQVISPNT = 0.5500E-03      LQVISTMP = 298.1
      AVIS =      BVIS =      LVUPREND =      LQTHRCND =
      LTHCNTMP =      ACON =      BCON =      LTCUPBND =      LTCLOEND =
      LQHTCPT = 1884.      (E) LQHTCPTM = 293.1      AHC = 1884.      (E) BHC =      INTFTTNP = 298.1
      LHCLOBND = 288.1      SURFTENS = 0.2370E-01      SFTNTEMP = 293.1      INTFTENS =
      SOLUBPNT =      SOLUBTMP =      A =      B =      AVP = 9.135
      BVP = 1174.      CVP = -56.15      VFUPREND = 370.1      VPLWRBND = 250.1      AVCP = 9491.
      BVCP = 443.0      CVCP = -0.2110      DVCP = 0.2333E-04      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION =      LHTVAPOR = 0.4230E+06      HTCOMSTN = -0.4080E+08      HTDECOMP =      HTSOLUTN = -0.3400E+06
      HTREACTN =      HTPOLYMR =      LOFLMLIM = 3.400      UPFLMLIM =      BURNRATE = 0.1007E-03
      TOXINHAL = 5.000      INHALCNC =      INHALTME =      IOTOXLIN = 0.5000E-03      UPTOXLIM = 0.5000E-02
      LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IBA  CHEMNAME = ISOBUTYL ACETATE      PATHCODE = A  T  U
MOLECWT = 116.2      NBP = 390.5      CRITTEMP = 569.0      CRITPRES = 0.3200E+07
DENSITY = 871.0      DENSTEMP = 293.2      ARHO = 1176      BRHO = -1.040
CRHO = 0.0000E+00      LDUPRND = 313.2      LDWRBND = 273.2      LOVISPT = 0.7240E-03      LOVISTMP = 293.2
AVIS = -11.57      BVIS = 1271.      LVUPRND = 373.2      LVLRBND = 273.2      LOTHRCD = 0.1500      (E)
LTHCNTMP = 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00      (E) LTCUPBND = 293.0      (E) LTCLOBND = 273.0      (E)
LOHTCPPT = 1922.      LOHTCPTM = 293.2      AHC = 1112.      SMC = 2.763      LHCUPBND = 383.2
LHCLOBND = 273.2      SURFTENS = 0.2370E-01      SFTNTEMP = 293.2      INTFENS = 0.4000E-01      (E) INTFTTMP = 293.0      (E)
SOLUBPNT = 0.6000      SOLUBTMP = 293.2      A = 8      B = 9      148
BVP = 1343.      CVP = -66.16      VFUPRND = 423.2      VPLWRBND = 283.2      AVCP = 5987.
BVCP = 544.3      CVCP = 0.2470      DVCP = 0.2010E-04      VHCUPBND = 600.0      VMCLOBND = 250.0
HTFUSION =      LHTVAPOR = 0.3086E+06      HTCONSTN = -0.3020E+08      (E) HTDECOMP =
HTREACTN =      HTPOLYMR =
TOXINHAL = 150.0      INHALCNC =
LATETOX =      ABFLTMP =
MOLFRAC =      MOLRATIO =
AIRFUEL =
LOFLMLIM = 2.400      UPFLMLIM = 10.50
INHALTIME =
LOTOXLM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IBL CHEMNAME = ISOBUTYLENE

PATHCODE = A B C D E F G

MOLEWT = 56.10	NBP = 266.3	NFP = 132.9	CRITTEMP = 417.9	CRITPRES = 0.3990E+07
DENSITY = 590.0	DENSTEMP = 293.2	SHPSTATE=L	ARHO = 983.3	BRHO = -1.330
CRHO = 0.0000E+00	LDUPREND = 333.2	LDLWRBND = 273.2	LQVISPT = 0.1560E-03	LQVISTMP = 293.2
AVIS = -9.888	BVIS = 329.0	LVUPRBN = 333.2	LVLWRBND = 243.2	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 2303.	LQHTCPTM = 293.2	AHC = 961.0	BHC = 4.605	LHCUPEND = 323.2
LHCLOBND = 243.2	SURFTENS = 0.1580E-01	SFTNTMP = 293.2	INTFTENS = 0.4000E-01(E)	INTFTIMP = 263.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.501
BVP = 1197.	CVP = 0.4004E-01	VFUPRBN = 303.2	VPLWRBND = 223.2	AVCP = 0.9780E+05
BVCP = 180.2	CVCP = -0.5652E-01	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3948E+06	HTCOMBTN = -0.4503E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.800	UPFLMLIN = 9.600	BURNRATE =
TOXINHAL = 1000.	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLNTMP =	MOLRATIO = 0.8750	(E) AIRFUEL = 14.68	(E) FLMETEMP =
MOLFRAC =				

IBR	CHEMNAME = ISOBUTYRIC ACID	PATHCODE = A	P	Q
MOLEWT =	88.00	NBP =	427.0	
DENSITY =	949.0	DENSTEMP=	293.1	
CRHO =	0.1036E-02	LDUPREND=	291.1	
AVIS =	-11.37	BVIS =	1393.	
LTHCNTMP=	285.1	ACON =	0.1419	
LQHTCPPT=	1884.	LQHTCPTM=	293.1	
LHCLOBND=	283.1	SURFTENS=	0.2510E-01	
SOLUBPNT=	20.00	SOLUBTMP=	293.1	
BVP =	1775.	CVP =	-68.15	
BVCP =		CVCP =		
HTFUSIGN=		LHTVAPOR=	0.4680E+06	
HTREACTN=		HTPOLYMR=		
TOXINHAL=		INHALCNC=		
LAFETOX =		ABFLMTMP=		
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IBT CHEMNAME = ISOBUTANE

PATHCODE = A B C D E F G

MOLECW = 58.12	NBP = 261.4	NFP = 17.90	CRITTEMP = 408.0	CRITPRES = 0.3650E+07
DENSITY = 557.0	DENSTEMP = 293.2	SHSTATE = L	ARHO = 880.5	BRHO = -1.100
CRHO = 0.0000E+00	LDUPRND = 293.2	LDLWRND = 223.2	LOVISPT = 0.2350E-03	LQVISTMP = 263.2
AVIS = -11.18	BVIS = 749.0	LVUPRND = 263.2	LVLWRND = 223.2	LQTHRCND =
LTHCNTMP =	ACCN =	BCON =	LTCURND =	LTCLOBND =
LQHTCPPT = 2412.	LQHTCPTM = 293.2	AHC = 816.0	BHC = 5.443	LHCUPND = 313.2
LHCLOBND = 253.2	SURFTENS = 0.1400E-01	SFTNTMP = 263.2	INTFTENS = 0.5000E-01(E)	INTFTTMP = 263.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 8.873
BVP = 882.8	CVP = -33.16	VFUPRND = 298.2	VPLWRND = 233.2	AVCP = 2470.
BVCP = 352.3	CVCP = -0.1193	DVCP = 0.0000E+00	VHCUPND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.3663E+06	HTCOMSTN = -0.4526E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.800	UPFLMLIM = 8.400	BURNRATE = 0.1550E-03
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO = 0.8333	(E) AIRFUEL = 15.35	(E) FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI. SYSTEM OF UNITS

```

*****
IDA  CHEMNAME = ISODECALDEHYDE          PATHCODE = A  T  U
MOLEWT = 156.3      NBP =                NFP =                CRITTEMP=
DENSITY =           DENSTEMP=           SHPSTATE=           ARHO =                CRITPRES=
CRHO = 0.0000E+00(E) LDUPRND= 293.0 (E) LDLWRSD= 278.0 (E) LQVISPAT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRSD= 298.0 (E) LVLWRSD= 253.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.0 (E) LTCLOBND= 283.0 (E)
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC = 2000. (E) EHC = 0.0000E+00(E) LHCUPBND= 298.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=           SOLUBTMP=           A =                B =                AVP = 9.702 (E)
BVP = 2315. (E) CVP = 0.0000E+00(E) VFUPRSD= 490.0 (E) VPLWRSD= 350.0 (E) AVCP = 0.4468E+05(E)
BVCP = 889.0 (E) CVCP = -0.4690 (E) DVCP = 0.0000E+00(E) VHCUPBND= 600.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=           LHTVAPOR= 0.2800E+06(E) HTCOYSTN= -0.4140E+08(E) HTDECOMP=           HTSOLUTN=
HTREACTN=           HTPOLYMR=           LOFLWLIM=           UPFLWLIM=           BURNRATE=
TOXINHAL=           INHALCNC=           INHALTME=           LOTOXLIM=           UPTOXLIM=
LATETOX =           ABFLMTMP=           MOLRATIO=           AIRFUEL =           FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

IHA  CHEMNAME = ISOHEXANE
      MOLEWT = 86.18      NBP = 333.5      PATHCODE = A T U V W
      DENSITY = 653.0     DENSTEMP= 293.2    SHPSTATE=L      CRITTEMP= 497.5      CRITPRES= 0.3010E+07
      CRHO = 0.0000E+00   LDUPRND= 353.2     LDWRBND= 233.2      LOVISPLT= 0.2840E-03  LOVISTMP= 293.2
      AVIS = -10.23      BVIS = 605.0     LVUPRND= 353.2      LVLWRBND= 233.2      LQTHRCND= 0.1151
      LTHCNTMP= 293.2     ACCN = 0.2174      BCON = -0.3489E-03  LTCUPBND= 333.2      LTCLOBND= 273.2
      LQHTCPPT= 2227.     LQHTCPTM= 293.2      AHC = 1245.        BHC = 3.349          LHCUPBND= 343.2
      LHCLGBND= 253.2     SURFTENS= 0.1738E-01  SFTNTENS= 293.2    INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.964
      BVP = 1135.        CVP = -46.56        VFUPRND= 373.2     VPLWRBND= 253.2     AVCP = 8583.
      BVCP = 506.0       CVCP = -0.1696      DVCP = 0.0000E+00  VHCUPBND= 600.0     VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.3228E+06      HTCOMSTN= -0.4453E+08  HTDECNDP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLWLM= 1.200      UPFLMLIN= 7.700     BURNRATE= 0.1367E-03
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PATHCODE = A T U

	MOLWCWT =	130.2	NBP	=	459.0	NFP	=	373.0	(E)	CRTTEMP=	CRTPRES=				
	DENSITY =	832.0	DENSTEMP=		293.2	SHPSTATE=L				ARHO	=	BRHO	=	-1.0000	
	CRHO	=	0.0000E+00	LWLWRBND=	303.2	LDLWRSND=	283.2	LQVISPAT=	0.1000E-01	LQVISTMP=	293.2				
	AVIS	=	BVIS	=	VUPRBNDD=	LVLWRBND=				LQTHRCND=	0.1500	(E)			
	LTHCNTMP=	293.0	(E) ACON	=	0.1500	(E) BCON	=	0.0000E+00(E)	LTCUPBND=	303.0	(E)	LTCLOBND=	283.0	(E)	
	LQHCTCPT=	3308.	LQHTCPMT=		323.2	AHC	=	EHC	=	LHCUBPNDD=					
	LHCLQBND=		SURFTENS=	0.2950E-01	SFTNTEMP=	293.2	INTFTEHS=	0.4000E-01(E)	INTFTTMP=	293.0	(E)				
	SOLUBNPT=	0.7000E-01	SOLUBTMP=		293.2	A	=	B	=	AVP	=	11.30			
	BVP	=	2860.	CVP	=	0.4004E-01	VFLWRBND=	473.2	AVCP	=	0.4130E+05(E)				
	BVCV	=	710.0	(E) CVCV	=	-0.3690	(E) DVCP	=	0.0000E+00(E)	VHCUPBND=	600.0	(E)	VHCLQBND=	300.0	(E)
	HVFUSION=		LHVAPOR=	0.3200E+06(E)	HTCOYSTN=	-0.4040E+08(E)	HTDECOMP=			HTSOLUTION=					
	HVTREACTN=		HTPOLYMR=		LOFLMLIM=	0.9000	LPFLMLIM=	5.700	BURNRATE=						
	TOXINHAL=		INHALLCNL=		INHAULTME=		LOTOTXLIM=	0.5000E-03	UPTOXLIM=	0.5000E-02					
	LATETOX	=	ABFLMTP=		MOLRATIO=		AIRFUEL	=	FILMETEMP=						
	MOLFAC	=													

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IPA  CHEMNAME = ISOPROPYL ALCOHOL          PATHCODE = A  P  Q  R  S
MOLEWT = 60.10      NBP = 355.5      CRITTEMP= 508.4      CRITPRES= 0.4760E+07
DENSITY = 785.0      DENSTEMP= 293.2      ARHO = 1022.      BRHO = -0.8100
CRHO = 0.0000E+00    LDUPRND= 303.2      LOVISPN= 1022.      LOVISTMP=
AVIS =              LVUPRND=              LQTHRCND=
LTHCNTMP=            BCON =              LTCLOBND=
LQHTCPPT= 2512.      LQHTCPTM= 293.2      BHC = 10.89      LHCUPBND= 303.2
LHCLOBND= 263.2      SURFTENS=              INTFTENS=
SOLUBPNT=            SOLUBTMP=              A = 10.52      AVP =
BVP = 1730.          CVP = -41.66      VFUPRND= 373.2      VPLWRBND= 273.2      AVCP = 0.1147E+05
BVCP = 281.8          CVCN = -0.7536E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.8792E+05    LHTVAPOR= 0.6657E+06      HTCOMBNTN= -0.3015E+08      HTSOLUTN= -0.2000E+05(E
HTREACTN=              HTPOLYMR=              LOFLMLIM= 2.000      UPFLMLIM= 12.00      BURNRATE= 0.3833E-04
TOXINHAL= 400.0        INHALCNC=              INHALTME=              LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =              ABFLMTMP=              MOLRATIO=              AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IPC  CHEMNAME = ISOPROPYL PERCARBONATE  PATHCODE = II
MOLEWT = 206.2  NBP = 282.0  (E) CRITTEMP=
DENSITY = 1080.  DENSTEMP= 288.1  SHPSTATE=S  ARHO =
CRHO =  LDUPRBND=  LOVISPNT=
AVIS =  BVIS =  LVLWRBND=
LTHCNTMP=  ACON =  LTCUPBND=
LOHTCPPT=  LOHTCPTM=  BHC =
LHCLOBND=  SURFTENS=  INTFTEMP=
SOLUBPNT= 0.4000E-01  SOLUBTMP= 238.1  B =
BVP =  CVP =  VPLWRBND=
BVCp =  CVCP =  VHCUPBND=
HTFUSION=  LHTVAPOR=  HTDECOMP= -0.1550E+07
HTREACTN=  HTPOLYMR=  UPFLWLIM=
TOXINHAL=  INHALCNC=  LOTOXLIM= 0.5000E-03
LAFETOX =  ABFLMTMP=  AIRFUEL =
MOLFRAC =  MOLRATIO=
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IPE  CHEMNAME = ISOPROPYL ETHER      PATHCODE = A  P  O  T  U  V  W
MOLEWT = 102.2      NBP      = 342.0      NFP      = 187.0      CRITTEMP= 500.1      CRITPRES= 0.2880E+07
DENSITY = 724.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1046.      BRHO      = -1.100
CRHO      = 0.0000E+00      LDUPRND= 333.1      (E) LVUPRND= 298.1      LQVISPNT= 0.8200E-03(E) LQVISTMP= 293.1
AVIS      = -11.61      (E) BVIS      = 1320.      (E) LVLWRBND= 283.1      LQTHRCND= 0.1512
LTHCNTMP= 293.1      ALCON      = 0.1512      (E) BCOR      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 278.1
LQHTCPT= 2119.      LQHTCPTM= 293.1      AHC      = 1137.      BHC      = 3.349      LHCUPBND= 303.1
LHCLOBND= 253.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E) INTFTMP= 293.1
SOLUBPNT= 1.200      SOLUBTMP= 293.1      A      =      B      =      AVP      = 9.813
BVP      = 1644.      CVP      = -0.1500      VFUPRND= 343.1      VPLWRBND= 273.1      AVCP      = -7392.      (E
BVCP      = 644.5      (E) CVCP      = -0.3975      (E) DVCP      = 0.7469E-04(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3100E+06      HTCOMBTN= -0.2700E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.400      UPFLMLIM= 7.900      BURNRATE= 0.8350E-04
TOXINHAL= 250.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LATETOX      =      ABFLMTMP=      MOLRATIO=      AIRFUEL      =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IPH  CHEMNAME = ISOPHORONE
      PATHCODE = A P Q T U
      MOLECW = 138.2 NBP = 488.5 NFP = 265.1 CRITTEMP=
      DENSITY = 923.0 DENSTEMP= 293.1 SHPSTATE=L ARHO = 1143. CRITPRES=
      CRHO = 0.0000E+00 LDUPREND= 303.1 LDLWPREND= 273.1 LQVISPT= 0.2600E-02 LQVISTMP= 293.1 BRHO = -0.7500
      AVIS = -13.80 (E) BVIS = 2300. (E) LVUPREND= 303.1 LVLWREND= 283.1 LQTHRCND= 0.1512 (E) LQTHRCND= 0.1512 (E)
      LTHCNTMP= 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPREND= 298.1 LTCLOBND= 278.1 LTCLOBND= 278.1
      LQHTCPPT= 1800. LQHTCPTM= 288.1 AHC = 229.9 (E) BHC = 5.443 (E) LHCUPBND= 303.1 LHCUPBND= 303.1
      LHCLOBND= 273.1 SURFTENS= 0.3230E-01 SFTNTMP= 293.1 INTFTENS= INTFTTMP= INTFTTMP=
      SOLUBPNT= 1.200 SOLUBTMP= 293.1 A = 5.597 B = -0.1500E-01 AVP = 10.55
      BVP = 2674. CVP = -0.1500 VFUPREND= 423.1 VPLWREND= 333.1 AVCP = -0.4903E+05(E)
      BVCP = 956.7 (E) CVCP = -0.6315 (E) DVCP = 0.1560E-03(E) VHCUPBND= 500.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.3140E+06 HTCCNSTN= -0.3500E+08(E) HTDECCMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LOFLMLIM= 0.8400 UPFLMLIM= 3.800 BURNRATE= 0.6680E-04
      TOXINHAL= 10.00 INHALCNC= INHALTME= LOTCXLM= 0.5000E-02 UPTOXLM= 0.1500E-01
      LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC = FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IPL	CHEMNAME = ISOPHTHALIC ACID	PATHCODE = II
MOLECWT =	166.0	NFP = 618.0
DENSITY =	1540.	SHPSTATE=S
CRHO =		LDLWRBND=
AVIS =		LVUPRBND=
LTHCNTMP=		BCON =
LOHTCPPT=		AHC =
LHCLOBND=		SFTNTMP=
SOLUBPNT=		A =
BVP =		VFUPRBND=
BVCP =		DVCP =
HTFUSION=		HTCOMBTN= -0.1940E+08
HTREACTN=		LOFLMLIM=
TOXINHAL=		INHALTME=
LAFETOX =		ABFLMTMP=
MOLFRAC =		
		CRITPRES=
		BRHO =
		LQVISTMP=
		LQTHRCND=
		LTCLOBND=
		LHCUPBND=
		INTFTTMP=
		AVP =
		AVCP =
		VHCLOBND=
		HTSOLUTN=
		BURNRATE=
		UPTOXLIM= 0.1500E-01
		FLMETEMP=
		CRITTEMP=
		ARHO =
		LOVISPNT=
		LVLWRBND=
		LTCUPBND=
		BHC =
		INTFTENS=
		B =
		VPLWRBND=
		VHCUPBND=
		HTDECOMP=
		UPFLMLIN=
		LOTOXLIM= 0.5000E-02
		AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

```

*****
IPM  CHEMNAME = ISOPROPYL MERCAPTAN      PATHCODE = A  P  Q  R  S
MOLEWT = 76.20      NBP = 325.8      CRITTEMP=
DENSITY = 814.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1107.
CRHO = 0.0000E+00      LDUPRBND= 303.1      LDWRBND= 273.1      LQVISPNT= 0.3690E-02
AVIS = -8.712      BVIS = 911.0      LVUPRBND= 308.1      LVLWRBND= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E)      BCON = 0.0000E+00(E)      LTCUPBND= 293.1      LTCLOBND= 253.1
LQHTCPT= 1800.      LQHTCPTM= 293.1      AHC = 1358.      SFTNTEMP= 293.1      INTFTENS= 1.465      LHCUPBND= 323.1
LHCLOBND= 173.1      SURFTENS= 0.2200E-01      SFTNTEMP= 293.1      INTFTENS= 1.465      LHCUPBND= 323.1
SOLUBPNT= 173.1      SOLUBTMP= 293.1      A = 1358.      B = 1358.      INTFTEMP= 293.1      INTFTEMP= 9.805
BVP = 1563.      CVP = -0.1500      VFUPRBND= 326.1      VPLWRBND= 278.1      AVCP = 0.3404E+05
BVCP = 209.3      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 500.0      VHCLOBND= 300.0
HTFUSION= 209.3      LHTVAPOR= 0.3830E+06      HTCOMSTN= 500.0      HTSOLUTN= 300.0
HTREACTN= 209.3      HTPOLYMR= 500.0      LOFLMLIM= 500.0      BURNRATE= 500.0
TOXINHAL= 209.3      INHALCNC= 500.0      INHALTME= 500.0      LOTOXLIM= 500.0
LATETOX = 209.3      ABFLMTMP= 500.0      MOLRATIO= 500.0      AIRFUEL = 500.0
MOLFRAC = 209.3      FLMETEMP= 500.0

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IPP    CHEMNAME = ISOPROPYLAMINE
      PATHCODE = A P Q R S
      MOLECWT = 59.11 NBP = 305.6 CRITTEMP= 475.0 CRITPRES= 0.5100E+07
      DENSITY = 690.0 DENSTEMP= 288.1 SHPSTATE=L ARHO = 978.2 (E) BRHO = -1.000 (E)
      CRHO = 0.0000E+00(E) LDUPRND= 303.1 LDLWRND= 278.1 LQVISPT= 0.3600E-03 LQVISTMP= 298.1
      AVIS = BVIS = LVUPRND= LVLWRND= LQTHRCND= 0.1512 (E)
      LTHCNTMP= 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1 LTCLOBND= 283.1
      LQHTCPPT= 1842. (E) LQHTCPTM= 293.1 AHC = 1842. (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
      LHCLOBND= 283.1 SURFTENS= 0.1680E-01 SFTNTEMP= 293.1 INTFTENS= INTFTTMP=
      SOLUBPNT= SOLUBTMP= A = B = AVP = 9.042
      BVP = 1055. CVP = -44.15 VFUPRND= 335.1 VPLWRND= 220.1 AVCP = 7842.
      BVCP = 353.4 CVCP = -0.1609 DVCP = 0.1246E-04 VHCUPBND= 600.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.4480E+06 HTCOMBNTN= -0.3940E+08 HTDECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LOFLMLIM= 2.300 UPFLMLIM= 12.00 BURNRATE= 0.1057E-03
      TOXINHAL= 5.000 INHALTME= LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
      LAIETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
      MOLFRAC = FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

IPR CHEMNAME = ISOPRENE

PATHCODE = A T U V W

MOLEWT = 68.12	NBP = 307.3	NFP = 127.3	CRITTEMP= 484.3	CRITPRES= 0.3790E+07
DENSITY = 681.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1032.	BRHO = -1.200
CRHO = 0.0000E+00	LDUPRBND= 353.2	LDLWRSND= 253.2	LQVISPT= 0.2100E-03	LQVISTMP= 293.2
AVIS = -11.29	BVIS = 827.0	LVUPRBND= 303.2	LVLWRBND= 243.2	LQTHRCND= 0.1337
LTHCNTMP= 293.2	ACON = 0.2840	BCON = -0.5117E-03	LTCUPBND= 333.2	LTCLOBND= 253.2
LQHTCPPT= 2232.	LQHTCPTM= 293.2	AHC = 1127.	BHC = 3.768	LHCUPBND= 333.2
LHCLOBND= 253.2	SURFTENS= 0.1690E-01	SFTNTMP= 293.2	INTFTENS= 0.4000E-01(E)	INTFTTMP= 293.0 (E
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.028
BVP = 1081.	CVP = -38.46	VFUPRBND= 303.2	VPLWRBND= 213.2	AVCP = 1968.
BVCP = 397.7	CVCP = -0.2324	DVCP = 0.5275E-04	VHCUPBND= 600.0	VHCLOBND= 250.0
HTFUSION=	LHTVAPOR= 0.3559E+06	HTCOMSTN= -0.4384E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR= -0.1160E+07	LOFLWLIM= 2.000	UPFLWLIM= 9.000	BURNRATE= 0.1433E-03
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LALETEOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

***** PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS *****

```

IPT  CHEMNAME = ISOPENTANE
      MOLECW = 72.15  NBP = 301.1  PATHCODE = A  T  U  V  W
      DENSITY = 620.0  DENSTEMP = 293.2  NFP = 113.3  CRITTEMP = 460.4  CRITPRES = 0.3380E+07
      CRHO = 0.0000E+00  LDUPRND = 303.2  SHPSTATE = L  ARHO = 906.7  BRHO = -0.9800
      AVIS = -11.25  BVIS = 836.0  LVUPRND = 293.2  LDWRBND = 243.2  LQVISPNT = 0.2250E-03  LQVISTMP = 293.2
      LTHCNTMP = 293.2  ACON = 0.2303  BCON = -0.4187E-03  LVLWRBND = 243.2  LQTHRCND = 0.1076
      LQHTCPPT = 2261.  LQHTCPTM = 293.2  AHC = 1033.  LTCUPBND = 323.2  LTCLOBND = 293.2
      LHCLOBND = 253.2  SURFTENS = 0.1605E-01  SFTNTMP = 293.2  INTFTENS = 0.4000E-01(E)  INTFTMP = 293.0  (E)
      SOLUBTMP =  SOLUBTMP =  A =  B =  AVP = 8.915
      BVP = 1020.  CVP = -40.06  VFUPRND = 323.2  VPLWRBND = 253.2  AVCP = 2973.
      BVCP = 432.5  CVCP = -0.1465  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION =  LHTVAPOR = 0.3391E+06  HTCOMBTN = -0.4492E+08  HTDECOMP =  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 1.400  UPFLMLIM = 8.300  BURNRATE = 0.1233E-03
      TOXINHAL =  INHALCNC =  INHALTME =  LOTXLIM = 0.5000E-02  UPTOXLIM = 0.1500E-01
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ISA  CHEMNAME = ISODECYL ALCOHOL      PATHCODE = A  T  U
MOLEWT = 158.3      NBP = 493.0      NFP = 333.0      (E) CRITTEMP=
DENSITY = 841.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1134.
CRHO = 0.0000E+00      LDUPREND= 303.2      LCLWRBND= 273.2      LOVISPTI= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRBND= 298.0      (E) LVLWRBND= 283.0      (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 298.0      (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.0 (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.2000E-01(E) SFTNTEMP= 293.0      (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= 0.1000E-01(E) SOLUBTMP= 293.2      A = 8      B = 9.702 (E)
BVP = 2315.      (E) CVP = 0.0000E+00(E) VFUPRBND= 490.0      (E) VPLWRBND= 350.0      (E) AVCP = 0.4468E+05(E)
BVCP = 889.0      (E) CVCP = -0.4690      (E) DVCP = 0.0000E+00(E) VHCUPBND= 600.0      (E) VHCLOBND= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.2800E+06(E) HTCOMBTN= -0.4140E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
IVA  CHEMNAME = ISOVALERALDEHYDE      PATHCODE = A   T   U   V   W
MOLECWT = 86.10      NBP = 365.7      NFP = 222.0      CRITTEMP=
DENSITY = 785.0      DENSTEMP= 293.1      SHPS:ATE=L      ARHO = 1313.
CRHO = 0.0000E+00      LDUPRND= 313.1      LDLWRBND= 273.1      LQVISPAT= 0.5600E-03      LQVISTMP= 293.1
AVIS = -11.30      BVIS = 1115.      LVUPRND= 365.1      LVLWRBND= 273.1      LQTHRCND= 0.1512      (E
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      (E) LQHTCPTM= 293.1      AHC = 656.7      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.3000E-01(E)      SFTNTMP= 293.1      INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.1
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.791      (E
BVP = 1750.      (E) CVP = -0.1500      (E) VFUPRND= 368.1      VPLWRBND= 353.1      AVCP = 6692.      (E
BVCP = 451.4      (E) CVCP = -0.2137      (E) DVCP = 0.2471E-04(E)      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3900E+06(E)      HTCONSTN= -0.3600E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLNLM=      BURNRATE= 0.8851E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

JPF CHEMNAME = JET FUEL: JP-4

PATHCODE = A T U

MOLEWT =	NBP =	449.0	(E) NFP =	225.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	DENSTEMP =	293.2	SHPSIATE=L		ARHO =	BRHO = -1.0000
CRHO =	LDUPREND =	303.2	LDLWRBND =	273.2	LQVISPT =	LQVISTMP = 293.2
AVIS =	BVIS =	1110.	LVUPRSND =	298.2	LVLWRBND =	LQTHRCND = 0.1314
LTHCNTMP =	ACON =	0.1469	BCON =	-0.5233E-04	LTCUPBND =	LTCLOBND = 253.2
LQHTCPPT =	LQHTCPTM =	293.2	AHC =	896.6	BHC =	LHCUPBND = 373.2
LHCLOBND =	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0	(E) INTFTENS =	INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	A =	B =	AVP =	AVP = 8.515
BVP =	CVP =	-0.1599	VFUPRSND =	373.2	VPLWRBND =	AVCP = 0.1700E+05(E)
BVCP =	(E) CVCP =	-0.5720	(E) DVCP =	0.1200E-03(E)	VHCUPBND =	VHCLOBND = 300.0 (E)
HTFUSION =	LHTVAPOR =	0.3266E+06	HTCOMBTN =	-0.4312E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLWLIM =	1.300	UPFLWLIM =	BURNRATE = 0.6667E-04
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM = 0.5000E-03
LATETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
JPO  CHEMNAME = JET FUEL: JP-1(KEROSENE)      PATHCODE = A  T  U
MOLEWT =      NBP =      473.0      (E)  NFP =      286.0      CRITTEMP=
DENSITY =      800.0      DENSTEMP=      288.2      SHPSTATE=L      ARHO =      1088.      BRHO =      -1.0000
CRHO =      0.0000E+00      LDUPRBND=      303.2      LDLWRBND=      273.2      LQVISPT=      0.1200E-02      LQVISTMP=      293.2
AVIS =      -13.90      BVIS =      2100.      LVUPRBND=      298.2      LVLWRBND=      233.2      LQTHRCND=      0.1314
LTHCNTMP=      293.2      ACON =      0.1469      BCON =      -0.5233E-04      LTCUPBND=      373.2      LTCLOBND=      253.2
LQHTCPPT=      1968.      LQHTCPTM=      293.2      AHC =      854.8      BHC =      3.768      LHCUPBND=      373.2
LHCLOBND=      253.2      SURFTENS=      0.2750E-01(E)  SFTNTEMP=      293.2      INTFTENS=      0.4800E-01(E)  INTFTTMP=      293.2
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =      9.515
BVP =      2076.      CVP =      -0.1599      VFUPRBND=      423.2      VPLWRBND=      293.2      AVCP =      0.1700E+05(E)
BVCP =      1073.      (E)  CVCP =      -0.5720      (E)  DVCP =      0.1200E-03(E)  VHCUPBND=      600.0      (E)  VHCLOBND=      300.0      (E)
HTFUSION=      LHTVAPOR=      0.2512E+06      HTCOMBTN=      -0.4312E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      0.7000      UPFLMLIM=      5.000      BURNRATE=      0.6667E-04
TOXINHAL=      200.0      INHALCNC=      INHALTME=      LOTOXLIM=      0.5000E-02      UPTOXLIM=      0.1500E-01
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
JPT  CHEMNAME = JET FUEL: JP-3          PATHCODE = A  T  U
MOLECWT =      NBP      = 303.0  (E)  NFP      =      CRITEMP=
DENSITY = 800.0  DENSTEMP= 293.2          SHPSTATE=L  ARHO  =      CRITPRES=
CRHO  = 0.0000E+00(E) LDUPRBND= 303.0  (E)  LDLWRBND= 273.0  (E)  LQVISPNT= 0.8400E-03  LQVISTMP= 293.2
AVIS  = -10.87  BVIS  = 1110.  LVUPRBND= 298.2  LVLWRBND=      LQTHRCND= 0.2082
LTHCNTMP= 293.2  ACON  = 0.2236  BCON  = -0.5233E-04  LTCUPBND= 373.2  LTCLOBND= 253.2
LQHTCPPT= 2010.  LQHTCPTM= 293.2  AHC  = 896.6  BHC  =      LHCUPBND= 373.2
LHCLOBND= 253.2  SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0  (E)  INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0  (E)
SOLUBPNT=      SOLUBTMP=      A  =      B  =      AVP  = 8.747
BVP  = 1270.  CVP  = -0.1599  VFUPRBND= 373.2  VPLWRBND= 253.2  AVCP  = 0.1700E+05(E)
BVCP  = 1073.  (E)  CVCP  = -0.5720  (E)  DVCP  = 0.1200E-03(E)  VHCUPBND= 600.0  (E)  VHCLOBND= 300.0  (E)
HTFUSIGN=      LHTVAPOR= 0.3266E+06  HTCOMSTN= -0.4312E+08  HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE= 0.6667E-04
TOXINHAL= 200.0  INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX  =      ABFLMTMP=      MOLRATIO=      AIRFUEL  =      FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

JPV CHEMNAME = JET FUEL: JP-5(KEROSENE, HEAVY) PATHCODE = A T U

MOLECW =	NBP =	449.0	(E) NFP =	225.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	DENSTEMP =	288.2	SHPSTATE = L		ARHO =	BRHO = -1.0000
CRHO =	LDUPRBND =	303.2	LDLWRBND =	273.2	LQVISPNT =	LQVISTMP = 293.2
AVIS =	BVIS =	1982.	LVUPRBND =	298.2	LVLWRBND =	LQTHRCND = 0.1314
LTHCNTMP =	ACON =	0.1469	BCON =	-0.5233E-04	LTCUPBND =	LTCLOBND = 253.2
LQHTCPPT =	LQHTCPTM =	293.2	AHC =	896.6	BHC =	LHCUPBND = 373.2
LHCLOBND =	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0	(E) INTFTENS =	INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =		A =		B =	AVP = 9.410
BVP =	CVP =	-0.1599	VFUPRBND =	423.2	VPLWRBND =	AVCP =
BVCP =	CVCP =		DVCP =		VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	0.3266E+06	HTCOWSTN =	-0.4312E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =	0.6000	UPFLMLIM =	BURNRATE = 0.6667E-04
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

KRS CHEMNAME = KEROSENE

PATHCODE = A T U

MOLECW =	NBP =	473.0	(E) NFP =	227.6	CRITTEMP =	CRITPRES =
DENSITY =	DENSTEMP =	288.2	SHPSTATE=L		ARHO =	BRHO = -1.0000
CRHO =	LDUPREND =	303.2	LDLWRBND =	273.2	LQVISPNT =	LQVISTMP = 293.2
AVIS =	BVIS =	2100.	LVUPRSD =	298.2	LVLWRBND =	LOTHRCND = 0.1314
LTHCNTMP =	ACON =	0.1469	BCON =	-0.5233E-04	LTCUPBND =	LTCLOBND = 253.2
LQHTCPPT =	LQHTCPTM =	293.2	AHC =	854.8	BHC =	LHCUPBND = 373.2
LHCLOBND =	SURFTENS =	0.2750E-01(E)	SFTNTMP =	293.2	INTFTENS =	INTFTTMP = 293.2
SOLUBPNT =	SOLUBTMP =		A =		B =	AVP = 9.515
BVP =	CVP =	-0.1599	VFUPRSD =	423.2	VPLWRSD =	AVCP =
BVCP =	CVCP =		DVCP =		VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	0.2512E+06	HTCOASTN =	-0.4312E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =	0.7000	UPFLMLIM =	BURNRATE = 0.6667E-04
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LAC  CHEMNAME = LEAD ACETATE          PATHCODE = SS
MOLEWT = 379.3      NBP =              NFP =              CRITTEMP=
DENSITY = 2550.      DENSTEMP= 293.1    SHPSTATE=S        ARHO =
CRHO =              LDUPRBNB=          LDLWRBNB=          LQVISTMP=
AVIS =              BVIS =             LVUPRBNB=          LQTHRCND=
LTHCNTMP=          ACON =              BCON =             LTCLOBND=
LQHTCPPT=          LQHTCPTM=          AHC =              LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTTMP=
SOLUBPNT= 44.30     SOLUBTMP= 293.1    A = -316.3         AVP =
BVP =              CVP =              VFUPRBNB=          AVCP =
BVCP =              CVCP =             DVCP =             VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOWSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          BURNRATE=
TOXINHAL= 0.1200E-01 INHALCNC=          INHALTME=          UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LAH	CHEMNAME = LITHIUM ALUMINUM HYDRIDE	PATHCODE = RR C	
MOLECW = 37.94	NBP =	NFP =	CRITTEMP =
DENSITY = 917.0	DENSTEMP = 288.2	SHSTATE = S	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LOVISTMP =
AVIS =	BVIS =	LVUPRBN =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VFUPRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN = -0.1821E+08	HTPOLYMR = -0.1821E+08	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LAL  CHENAME = LINEAR ALCOHOLS (12-15 CARBONS)      PATHCODE = A  T  U
MOLEWT = 186.0 (E) NBP = 525.0 (E) NFP = 292.0 (E) CRITTEMP=
DENSITY = 840.0 DENSTEMP= 293.2 SHPSTATE=L          ARHO = 840.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRND= 303.0 (E) LQWRBND= 293.0 (E) LQVISPNT= 0.3700E-02(E) LQVISTMP= 303.0 (E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRND= 313.0 (E) LVLWRBND= 303.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 303.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOBND= 303.0 (E)
LQHTCPPT= 2200. (E) LQHTCPTM= 303.0 (E) AHC = 2200. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 303.0 (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 303.0 (E) INTFTENS= 0.3000E-01(E) INTFTMP= 303.0 (E)
SOLUBPNT= SOLUBTMP= A = B = AVP = 9.790 (E)
BVP = 2630. (E) CVP = 0.0000E+00(E) VFUPRND= 313.0 (E) VPLWRBND= 303.0 (E) AVCP =
BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
HTFUSION= LHTVAPOR= HTCOMSTN= -0.4290E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= INHALCNC= INHALTME= LOTOXLM= UPTOXLIM= 0.1500E-01
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
LAR    CHEMNAME = LEAD ARSENATE                PATHCODE = II
MOLEWT = 347.1      NBP =      CRITTEMP=
DENSITY = 5790.     DENSTEMP= 288.2  ARHO =
CRHO =      LDUPRND=      LQVISTMP=
AVIS =      BVIS =      LVLWRBND=
LTHCNTMP=      ACON =      LTCUPBND=
LQHTCPPT=      LQHTCPTM=      BHC =
LHCLOBND=      SURFTENS=      INTFTMP=
SOLUBPNT=      SOLUBTMP=      AVP =
BVP =      CVP =      VPLWRBND=
BVCP =      CVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      UPFLMLIN=
TOXINHAL= 0.9700E-02 INHALCNC=      LOTOXLIM= 0.5000E-04(E) UPTOXLIM=
LAFETOX =      ABFLMTMP=      AIRFUEL =
MOLFRAC =      MOLRATIO=      FLMETEMP=
*****
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LFB  CHEMNAME = LEAD FLUOROBORATE          PATHCODE = A  P
MOLEWT =          NBP =          CRITTEMP=
DENSITY = 1750.    DENSTEMP= 293.1          BRHO =
CRHO =          LDUPRBN=          LOVISTMP=
AVIS =          BVIS =          LQTHRCND=
LTHCNTMP=        ACON =          LTCLOBND=
LQHTCPPT=        LQHTCPTM=        LHCUPBND=
LHCLOBND=        SURFTENS=        INTFTTMP=
SOLUBPNT=        SOLUBTMP=        AVP =
BVP =          CVP =          VPLWRBND=
BVCP =          CVCP =          VHCLOBND=
HTFUSION=        LHTVAPOR=        HTSOLUTN=
HTREACTN=        HTPOLYMR=        UPFLMLIM=
TOXINHAL=        INHALCNQ=        LOTOXLM= 0.5000E-03
LATETOX =        ABFLMTMP=        AIRFUEL =
MOLFRAC =
CRITPRES=

```

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LFR  CHEMNAME = LEAD FLUORIDE                      PATHCODE = II
MOLEWT = 245.2      NBP =
DENSITY = 8240.     DENSTEMP= 293.1      SHPSTATE=S
CRHO =              LDUPRBND=
AVIS =              BVIS =
LTHCNTMP=          ACON =
LQHTCPPT=          LQHTCPTM=
LHCLOBND=          SURFTENS=
SOLUBPNT= 0.6400E-01  SOLUBTMP= 293.1      A = 0.6400E-01      B = 0.0000E+00
BVP =              CVP =
BVCN =              CVCP =
HTFUSIGN=          LHTVAPOR=
HTRACTN=           HTPOLYMR=
TOXINHAL= 0.1370E-01  INHALCNC=
LATETOX =          ABFLMTMP=
MOLFRAC =          MOLRATIO=

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

CRITTEMP=
ARHC =
LOVISPT=
LVLWRBND=
LTCUPBND=
EHC =
INTFTENS=
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LHD	CHEMNAME = LITHIUM HYDRIDE	PATHCODE = RR	
MOLEWT =	7.950	NFP =	CRITPRES=
DENSITY =	780.0	SHPSTATE=S	BRHO =
CRHO =		LDLWRBND=	LOVISTMP=
AVIS =		LVUPRBND=	LOTHRCND=
LTHCNTMP=		BCON =	LTCLOBND=
LQHTCPPT=		AHC =	LHCUPBND=
LHCLOBND=		SFTNTMP=	INTFTTMP=
SOLUBPNT=		A =	AVP =
BVP =		VFUPRBND=	AVCP =
BVCP =		DVCP =	VHCLOBND=
HTFUSION=		HTCOMSTN=	HTSOLUTN= -0.1700E+08
HTREACTN=		LOFLWLM=	BURNRATE=
TOXINHAL=	0.7050E-01	INHALTME=	UPTOXLIM=
LAFETOX =		MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LID CHEMNAME = LEAD IODIDE

PATHCODE = II

MOLEWT = 461.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 6160.	DENSTEMP = 293.1	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBNB =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBNB =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 0.7600E-01	SOLUBTMP = 298.1	A = -0.3111	B = 0.1300E-02	AVP =
BVP =	CVP =	VFUPRBNB =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.9700E-02	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

LLS  CHEMNAME = LATEX. LIQUID SYNTHETIC          PATHCODE = A  P
MOLECW =          NBP =          CRITTEMP=          CRITPRES=
DENSITY = 960.0 (E) DENSTEMP= 293.2              SHPSTATE=L      ARHO = 1000. (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRND= 293.0 (E) LDLWRND= 278.0 (E) LQVISPNT=          LOVISTMP=
AVIS =          BVIS =          LVUPRND=          LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC =          LHCUPBND= 303.0 (E)
LHCLOBND= 278.0 (E) SURFTENS=          SFTNTMP=          INTTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRND=          VPLWRND=          AVCp =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONSTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

LNG  CHEMNAME = LIQUEFIED NATURAL GAS (LNG)      PATHCODE = A  B  C  D  E  F  G
MOLEWT = 17.00 (E) NBP = 112.0      NFP = 91.00      CRITTEMP= 191.0      CRITPRES= 0.4640E+07
DENSITY = 415.0 (E) DENSTEMP= 111.2      SHPSTATE=L      ARHO = 580.4      BRHO = -1.400
CRHO = 0.0000E+00      LDUPRBND= 123.2      LDLWRBND= 93.16      LOVISBND= 0.1350E-03      LQVISTMP= 113.2
AVIS = -12.71      BVIS = 430.0      LVUPRBND= 153.2      LVLWRBND= 93.16      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPT= 3517.      LOHTCPTM= 113.2      AHC = 2491.      BHC = 9.211      LHCUPBND= 143.2
LHCLOBND= 93.16      SURFTENS= 0.1400E-01      SFTNTMP= 112.2      INTFTENS= 0.5000E-01(E)      INTFTTMP= 112.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.737
BVP = 389.9      CVP = -7.160      VFUPRBND= 123.2      VPLWRBND= 93.16      AVCP = 0.2504E+05
BVCP = 25.33      CVCP = 0.3559E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.5100E+06(E)      HTCOMSTN= -0.5443E+08(E)      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 5.300      UPFLMLIM= 14.00      BURNRATE= 0.2083E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLM=      UPTOXLM=
LAFETOX =      ABFLMTMP= 2339.      (E) MOLRATIO= 1.000      (E) AIRFUEL = 17.16      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LNT CHEMNAME = LEAD NITRATE

PARHCODE = SS

MOLEWT =	331.2	NBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	4530.	DENSTEMP=	293.1	SHPSATE=S	=	ARHO	BRHO =
CRHO =		LDUPRBNQ=		LDLWRBND=	LQVISPNT=	LQVISTMP=	
AVIS =		BVIS =		LVUPRBNQ=	LVLWRBND=	LQTHRCND=	
LTHCNTMP=		ACON =		BCON =	LTCUPBND=	LTCLOBND=	
LQHTCPPT=		LQHTCPTM=		AHC =	EHC =	LHCUPBND=	
LHCLOBND=		SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=	
SOLUBPNT=	56.50	SOLUBTMP=	293.1	A =	-202.9	B =	AVP =
BVP =		CVP =		VFUPRBNQ=	VPLWRBND=	AVCP =	
BVCP =		CVCP =		DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSIGN=		LHTVAPOR=		HTCOMBNTN=	HTDECOMP=	HTSOLUTN=	0.9600E+05
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE=	
TOXINHAL=	0.1350E-01	INHALCNC=		INHALTME=	LOTOXLIM=	0.5000E-03	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=	AIRFUEL =		FLMETEMP=
MOLFRAC =							

LPG	CHEMNAME = LIQUEFIED PETROLEUM GAS (LPG)	A	B	C	D	E	F	G
MOLECW	= 44.00 (E) NBP = 233.0	(E) NFP =		CRITTEMP=	176.5	CRITPRES=	0.4249E+07	
DENSITY	= 510.0 (E) DENSTEMP= 223.2	SHPSTATE=L		ARHO =	835.5	BRHO =	-1.100	
CRHO	= 0.0000E+00 LDUPRBND= 233.2	LDLRBND= 153.2		LOVISPT=	0.2050E-03	LOVISTMP=	233.2	
AVIS	= -10.75 BVIS = 525.0	LVUPRBND= 233.2		LVLWRBND=	173.2	LOTHRCDN=		
LTHCNTMP=	ACON =	BCON =		LTCUPBND=		LTCLOBND=		
LOHTCPPT=	2973. LOHTCPTM= 293.2	AHC = -95.88		BHC =	10.47	LHCUPBND=	323.2	
LHCLOBND=	223.2 SURTENS= 0.1600E-01	SFTNTMP= 226.2		INTFTENS=	0.5000E-01(E)	INTFTTMP=	235.0 (E)	
SOLUBPNT=	SOLUBTMP=	A =		B =		AVP =	8.955	
BVP	= 813.2 CVP = -25.16	VFUPRBND= 247.2		VPLWRBND=	123.2	AVCP =	4271.	
BVCP	= 255.0 CVCP = -0.7536E-01	DVCP = 0.0000E+00		VHCUPBND=	-00.0	VHCLOBND=	250.0	
HTFUSION=	LHTVAFUR= 0.4262E+06	HTCOMSTN= -0.4601E+08		HTDECOMP=		HTSOLUTN=		
HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.800		LPFLMLIN=	8.400	BURNRATE=	0.1367E-03	
TOXINHAL=	1000. INHALCNC=	INHALTIME=		LOTOXLIM=		UPTOXLIM=		
LAFETOX =	ABFLMTMP= 2419. (E) MOLRATIO= 1.000	(E) AIRFUEL =	17.15	(E) FLMETEMP=				
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LPO	CHEMNAME = LAUROYL PEROXIDE	PATHCODE = II Z
MOLECW = 399.0	NBP =	NFP = 327.0
DENSITY = 910.0	DENSTMP =	298.1
CRHO =	LDUPRBND =	LDLWRBND =
AVIS =	BVIS =	LVUPRBND =
LTHCNTMP =	ACON =	2CON =
LQHTCPPT =	LQHTCPTM =	AHC =
LHCLOBND =	SURFTENS =	SFTNTMP =
SOLUBPNT =	SOLUBTMP =	A =
BVP =	CVP =	VFUPRBND =
BVCP =	CVCP =	DVCP =
HTFUSION =	LHTVAPOR =	HTCOMSTN = -0.3800E+08(E)
HTREACTN =	HTPOLYMR =	LOFLMLIM =
TOXINHAL =	INHALCNC =	INHALTME =
LATETOX =	ABFLMTMP =	MOLRATIO =
MOLFRAC =		
		CRITTEMP =
		ARHO =
		LQVISTMP =
		LQTHRCND =
		LTCLOBND =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LRM  CHEMNAME = LAURYL MERCAPTAN          PATHCODE = A  T  U
      MOLECWT = 202.0  NBP =                NFP = 266.2  CRITTEMP=
      DENSITY = 850.0  DENSTEMP= 282.2      SHPSTATE=L    ARHO = 1095.  CRITPRES=
      CRHO = 0.0000E+00  LDUPRBND= 293.2      LDLWRBND= 283.2  LQVISPNT= 0.3000E-02  LQVISTMP= 293.2
      AVIS = -12.28  BVIS = 1900.            LVUPRBND= 373.2  LVLWRBND= 283.2  LQTHRCND= 0.1500  (E)
      LTHCNTMP= 293.0  (E) ACON = 0.1500  (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0  (E) LTCLOBND= 283.0  (E)
      LQHTCPPT= 2200.  (E) LQHTCPTM= 293.0  (E) AHC = 2200.  (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0  (E)
      LHCLOBND= 283.0  (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.3000E-01(E) INTFTTMP= 293.0  (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.790  (E)
      BVP = 2630.  (E) CVP = 0.0000E+00(E) VFUPRBND= 303.0  (E) VPLWRBND= 283.0  (E) AVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
      HTFUSION=          LHTVAPOR= 0.2500E+06(E) HTCOMBTN= -0.4220E+08(E) HTDECOMP=          HTSOLUTN=
      HTPREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
      TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTA	CHEMNAME = LACTIC ACID	PATHCODE = A P	
MOLECWT =	50.00	NBP =	
DENSITY =	1200.	DENSTEMP =	293.1
CRHO =	0.0000E+00(E)	LDUPRBND =	298.1
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =	2319.	LQHTCPTM =	290.1
LHCLOBND =	283.1	SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	
		SHPSTATE=L	
		LDLWRBND =	283.1
		LVUPRBND =	
		BCON =	
		AHC =	1227.
		SFTNTMP =	
		A =	
		VFUPRBND =	
		DVCP =	
		HTCOMBTN =	-0.1520E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTENP =	
		ARHO =	1493.
		LQVISPLT =	0.4050E-01
		LVLWRBND =	
		LTCUPBND =	
		BHC =	3.768
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.5000E-03
		AIRFUEL =	
		CRITPRES =	
		(E) BRHO =	-1.000 (E)
		LQVISTMP =	298.1
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	303.1
		INTFTIMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTC CHEMNAME = LEAD THIOCYANATE PATHCODE = II

MOLEWT = 323.4	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 3820.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	RCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.4400	SOLUBTMP = 291.1	A = -5.383	B = 0.2000E-01	AVP =
BVP =	CV =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCON*STN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.1400E-01	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTH	CHEMNAME = LITHARGE		PATHCODE = II		
MOLEWT =	223.2	NBP =		CRITTEMP=	CRITPRES=
DENSITY =	9500.	DENSTEMP=	293.1	ARHO =	BRHO =
CRHO =		LDUPRBN=		LOVISPT=	LOVISTMP=
AVIS =		BVIS =		LVLWRBN=	LOTHRCND=
LTHCNTMP=		ACON =		LTCUPBN=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		BHC =	LHCUPBN=
LHCLOBND=		SURFTENS=		INTFTENS=	INTFTTMP=
SOLUBPNT=	0.6800E-02	SOLUBTMP=	291.1	B =	AVP =
BVP =		CVP =		VPLWRBN=	AVCP =
BVCP =		CVCP =		VHCUPBN=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		UPFLMLIM=	BURNRATE=
TOXINHAL=	0.2000E-01	INHALCNC=		LOTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=		AIRFUEL =	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

LTM CHEMNAME = LITHIUM, METALLIC

PATHCODE = RR

MOLEWT = 6.939	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 530.0	DENSTEMP= 293.1	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPAT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNIEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOM:STN= -0.4300E+08	HTDECOMP=	HTSOLUTN= -0.7330E+08
HTREACTN=	HTPOLYMR=	LOFLMLIM=	IPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
LTT  CHEMNAME = LEAD TETRAACETATE          PATHCODE = RR
MOLEWT = 443.4      NBP =      SHPSTATE=S      NFP = 448.0      CRITPRES=
DENSITY = 2200.     DENSTEMP= 293.1             CRITTEMP=
CRHO =             LDUPRND=                     ARHO =
AVIS =             BVIS =                       LQVISPT=
LTHCNTMP=          ACON =                       LVLWRBND=
LQHTCPPT=          LQHTCPTM=                     LTCUPBND=
LHCLOBND=          SURFTENS=                     INTFTEMP=
SOLUBPNT=          SOLUBTMP=                     AVP =
BVP =              CVP =                       VPLWRBND=
BVCP =             CVCP =                     VHCUPBND=
HTFUSION=          LHTVAPOR=                   HTSOLUTN=
HTREACTN=          HTPOLYMR=                   UPFLMLIM=
TOXINHAL= 0.1000E-01  INHALCNC=                 LOTOXLIM= 0.5000E-03
LAETOX =          ABFLMTMP=                     AIRFUEL =
MOLFRAC =
*****
CRITPRES=
BRHO =
LQVISPT=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTEMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MAA  CHEMNAME = METHYL AMYL ALCOHOL      PATHCODE = A  P  Q  T  U
MOLEWT = 102.2      NBP = 405.0      (E) CRITTEMP= 564.0      CRITPRES=
DENSITY = 807.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1158.      BRHO = -1.200
CRHO = 0.0000E+00      LDUPRBND= 333.2      LDWRSND= 273.2      LQVISPAT= 0.3800E-02      LQVISTMP= 298.2
AVIS =      BVIS =      LVUPRSND=      LVLWRBND=      LQTHRCND= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 283.0      (E)
LQHTCPT= 2177.      LQHTCPTM= 293.2      AHC = 949.7      BHC =      LHCUPBND= 303.2
LHCLOBND= 273.2      SURFTENS= 0.2280E-01      SFTNTEMP= 293.2      INTFTENS= 0.4000E-01(E) INTFTMP= 293.0      (E)
SOLUBPNT= 1.700      SOLUBTMP= 293.2      A =      B =      AVP = 10.61
BVP = 2234.      CVP = -6.260      VEUPRSND= 423.2      VPLWRBND= 283.2      AVCP = 7063.
BVCP = 640.6      CVCP = -0.3643      DVCP = 0.8206E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3772E+06      HTCOMSTN= -0.2590E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LCFWLIM= 1.000      UPFLMLIM= 5.500      BURNRATE=
TOXINHAL= 25.00      INHALCNC=      INHALTNE=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MAC      CHEMNAME = METHYL AMYL ACETATE      PATHCODE = A   T   U
MOLEWT = 144.2      NBP      = 419.4      NFP      = 209.4      CRITTENP= 592.0      CRITPRES= 0.2600E+07
DENSITY = 860.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1141.      BRHO      = -0.9600
CRHO      = 0.0000E+00      LDUPREND= 333.2      (E)      LDWREND= 273.2      LQVISPNT= 0.1750E-02(E) LQVISTMP= 298.0 (E)
AVIS      = -13.40      (E) BVIS      = 2100.      (E)      LVUPPBND= 303.0      (E)      LVLWRBND= 278.0      (E)      LQTHRCND= 0.1500 (E)
LTHCNTMP= 298.0      (E) ACON      = 0.1500      (E)      BCON      = 0.0000E+00(E) LTCUPBND= 303.0      (E)      LTCLOBND= 278.0 (E)
LQHTCPPT= 2052.      LQHTCPTM= 293.2      AHC      = 824.1      BHC      = 4.187      LHCUPBND= 313.2
LHCLOBND= 273.2      SURFTENS= 0.2500E-01(E) SFTNTMP= 298.0      (E)      INTFTENS= 0.4000E-01(E) INTFTTMP= 298.0 (E)
SOLUBPNT= 0.1000      SOLUBTMP= 293.2      A      = 824.1      B      = 4.187      AVP      = 9.143
BVP      = 1449.      CVP      = -69.16      VFUPPBND= 383.2      VPLWRBND= 283.2      AVCP      = -6196.
BVCP      = 778.7      CVCP      = -0.4007      DVCP      = 0.5862E-04      VHCUPBND= 250.0
HTFUSION= LHTVAPOR= 0.5233E+06      HTCONBTN= -0.3350E+08(E) HTDECOMP= 5.700      HTSOLUTN=
HTREACTN= HTPOLYMR=
TOXINHAL= INHALCNC=
LAFETOX = ABFLMTMP=
MOLFRAC = MOLRATIO=
LOFLMLIM= 0.9000      LOTOXLM= 0.5000E-02      UPTOXLIM= 0.1500E-01
INHALTME=
AIRFUEL =
FLMETEMP=

```

PATHCODE = A P Q R S

[illegible]

PATHCODE = A P Q R S Z

[illegible]

MAN					
CHEMNAME = N-METHYLANILINE					
PATHCODE = A T U X Y					
MOLECWT =	107.2	NBP =	459.1	NFP =	216.0
DENSITY =	989.0	DENSTEMP=	293.1	SHPSSTATE=L	
CRHO =	0.0006E+00	LDUPREND=	303.1	LDLWRBND=	273.1
AVIS =	-13.48	BVIS =	2178.	LVUPRBDN=	323.1
LTHCNTMP=	293.1	ACON =	0.1849	BCON =	0.0000E+00
LQHTCPTT=	2135.	LQHTCPTM=	293.1	AHC =	2135.
LHCLGBND=	273.1	SURFTENS=	0.3960E-01	SFTNIEMP=	293.1
SOLUBPNT=		SOLUBTMP=		A =	
BVP =	1631.	CVP =	-80.65	VFUPRBND=	480.1
BVCP =		CVCP =		DVCP =	
HTFUSION=		LHTVAPOR=	0.4200E+06	HTCOMBTDN=	-0.3801E+08
HTREACTN=		HTPOLYMR=		LOFLMLIM=	
TOXINHAL=		INHALLNC=		INHALTME=	
LAFETOX =		ABFLMTMP=		MOLRATIO=	
MOLFRAC =					
CRITPRES=	701.0	CRITTEMP=		ARHO =	1224.
BRHO =					
LQVISTMP=	293.1	LQVISPNT=	0.2360E-02	LQVLRBND=	283.1
LQTHRCOND=	0.1849	LQVLRBND=	283.1	LTCUPBND=	298.1
LTCGBND=	283.1	BHC =	0.0000E+00	INTFTENS=	
LHCUPBND=	303.1	INTFTIMP=		AVP =	9.207
				AVCP =	
				VHCLGBND=	
				HTSOLUTN=	
				BURNRATE=	0.6096E-04
				UPTOXLIM=	
				FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MAP    CHEMNAME = METHYLACETYLENE - PROPADIENE MIXTURE      PATHCODE = A   B   C   D   E   F   G
MOLECW = 40.10      NBP = 244.0 (E) NFP =                      CRITTEMP=
DENSITY = 576.0      DENSTEMP= 288.1      SHPSTATE=L          ARHO = 1037.
CRHO = 0.0000E+00    LDUPREND= 293.1      LDLWRBND= 233.1      LQVISPNT=
AVIS =              BVIS =              LVUPRBND=              LVLWRBND=
LTHCNTMP= 273.1      ACON = 0.1163 (E) BCON = 0.0000E+00(E) LTCUPBND= 283.1
LQHTCPPT= 1507.      LQHTCPTM= 294.1      AHC = 279.9 (E) BHC = 4.187
LHCLOBND= 253.1      SURFTENS= 0.1800E-01 SFTNTMP= 249.1      INTFTENS=
SOLUBPNT=           SOLUBTMP=           A =              B =
BVP = 962.0          CVP = -0.1500      VFUPRBND= 293.1      VPLWRBND= 243.1
BVCP = 111.8         CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 600.0
HTFUSIGN=            LHTVAPOR= 0.5280E+06      HTCOWSTN= -0.4600E+08      HTDECOMP=
HTREACTN=            HTPOLYMR=            LOFLMLIM= 3.000      UPFLMLIM= 11.00
TOXINHAL= 1000.      INHALCNC=            INHALTME=            LOTOXLM=
LATETOX =            ABFLMTMP=            MOLRATIO= 1.000 (E) AIRFUEL = 13.69
MOLFRAC =
CRITPRES=
BRHO = -1.600
LOVISTMP=
LQTHRCND= 0.1163 (E)
LTCLOBND= 263.1
LHCUPBND= 294.1
INTFTTMP=
AVP = 9.146
AVCP = 0.2487E+05
VHCLOBND= 250.0
HTSOLUTN=
BURNRATE=
UPTOXLM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MAT		CHEMNAME = MERCURIC ACETATE		PATHCODE = SS	
MOLEWT =	318.7	NBP =		NFP =	CRITTEMP=
DENSITY =	3270.	DENSTEMP=	293.1	SHPSSTATE=S	BRHO =
CRHO =		LDUPRBN=		LDLWRBN=	LOVISIMP=
AVIS =		BVIS =		LVUPRBN=	LOTHRCND=
LTHCNTM=		ACON =		BCON =	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTENS=	INTFTTMP=
SOLUBPNT=	25.00	SOLUBTMP=	283.1	A =	AVP =
BVP =		CVP =		VFUPRBN=	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFILMLIM=	BURNRATE=
TOXINHAL=	0.3500E-02	INHALCNC=		INHALTME=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MBK  CHEMNAME = METHYL N-BUTYL KETONE          PATHCODE = A  P  Q  T  U
MOLEWT = 100.2      NEP = 400.0      NFP = 216.3      CRITTEMP=
DENSITY = 810.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1103.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.1      LDLWRBD= 273.1      LQVISPNT= 0.6260E-03      LQVISTMP= 293.1
AVIS = -11.52      BVIS = 1215.      LVUPRBD= 303.1      LVLWRBD= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBD= 303.1      LTCLOBND= 273.1
LQHTCPPT= 2303.      LQHTCPTM= 293.1      AHC = 2303.      BHC = 0.0000E+00      LHCUPBND= 313.1
LHCLOBND= 273.1      SURFTENS= 0.2549E-01      SFTNTMP= 293.1      INTFTENS= 0.9730E-02      INTFTTMP= 293.1
SOLUBPNT= 1.400      SOLUBTMP= 293.1      A =  =  B =  =  AVP =  =  9.673
BVP = 1867.      CVP = -0.1500      VFUPRBD= 400.1      VPLWRBD= 288.1      AVCP =  =
BVCP =  =  CVCP =  =  DVCP =  =  VHCUPBND=  =  VHCLOBND=
HTFUSION=  =  LHTVAPOR= 0.3400E+06      HTCOMSTN= -0.3740E+08      HTSOLUTN=  =  HTSOLUTN=
HTREACTN=  =  HTPOLYMR=  =  LOFLMLIM= 1.300      UPFLMLIM= 8.000      BURNRATE= 0.8016E-04
TOXINHAL= 100.0      INHALCNC=  =  INHALTME=  =  LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =  =  ABFLMTMP=  =  MOLRATIO=  =  AIRFUEL =  =  FLMETEMP=
MOLFRAC =  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MCA	CHEMNAME = MONOCHLOROACETIC ACID	PATHCODE = A	P
MOLEWT =	94.50	NBP =	462.0
DENSITY =	1580.	DENSTMP =	293.1
CRHO =	0.0000E+00	LDUPRND =	453.1
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	0.3300E-01
SOLUBPNT =	72.00	SOLUBTMP =	277.1
BVP =	2870.	CVP =	-0.1500
BVCP =		CVCP =	
HTFUSION =		LHTVAPJR =	0.5820E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LARETOX =		ABFLMTMP =	
MOLFRAC =			
CRITPRES =		CRITTEMP =	
BRHO =	-1.200	ARHO =	1776.
LQVISTMP =		LOVISPNT =	
LQTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPBND =		BHC =	
INTFTTMP =		INTFTENS =	
AVP =	11.22	B =	
AVCP =		VPLWRBND =	333.1
VHCLOBND =		VHCUPBND =	
HTSOLUTN =	-0.1500E+06	HTDECOMP =	
BURNRATE =		UPFLMLIN =	
UPTOX LIM =	0.5000E-03	LOTOX LIM =	0.5000E-04
FLMETEMP =		AIRFUEL =	
		LOFLMLIM =	8.000
		INHALTME =	
		MOLRATIO =	
		HTCOMSTN =	-0.4217E+07

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MCC CHEMNAME = MERCURIC AMMONIUM CHLORIDE PATHCODE = II

MOLEWT = 252.1	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 5700.	DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 0.1400	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.4400E-02	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MCF  CHEMNAME = MONOCHLORODIFLUOROMETHANE
      MOLECW = 86.48      NBP = 232.7      NFP =      CRITTEMP = 369.2      CRITPRES = 0.4930E+07
      DENSITY = 1410.      DENSTEMP = 233.2      SHPSTATE=L      ARHO = 2038.      BRHO = -2.700
      CRHO = 0.0000E+00      LDUPRBND = 243.2      LDLPBND = 193.2      LQVISPNT =      LOVISTMP =
      AVIS =      BVIS =      LVUPRBND =      LVLWRBND =      LOTHRCND =
      LTHCNTMP =      ACON =      LQHTCPTM =      BHC =      LTCLOBND =
      LQHTCPPT =      SURFTENS = 0.1500E-01(E)      SFTNTEMP = 232.0      INTFTENS = 0.5000E-01(E)      INTFTTMP = 232.0      (E)
      LHCLOBND =      SOLUBTMP = 298.2      A =      B =      AVP =      9.750
      SOLUBPNT = 0.3000      CVP = 0.4004E-01      VFUPRBND = 263.2      VPLWRBND = 193.2      AVCP =
      BVCP = 1104.      CVCP =      DVCV =      HTCONSTN =      HTDECOMP =      VHCLOBND =
      HTFUSION =      LHTVAPOR = 0.2340E+06      LOFLWLIM =      HTSOLUTN =
      HTREACTN =      HTPOLYMR =      INHALCNC =      LOTOXLIM =      BURNRATE =
      TOXINHAL = 1000.      ABFLMTMP =      MOLRATIO =      UPTOXLIM =
      LATETOX =      MOLFRAC =      AIRFUEL =      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MCH  CHEMNAME = METHYL CHLOROFORMATE      PATHCODE = A  O  X  Y

MOLECWT = 94.50      NBP = 344.0      CRITPRES=
DENSITY = 1220.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1513.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRND= 303.1      LDWRBND= 273.1      LQVISPT= 0.5700E-02(E) LQVISTMP= 293.1
AVIS = -18.81      (E) BVIS = 4000.      (E) LVUPRND= 298.1      LVLWRBND= 288.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LOHTCPPT= 2093.      (E) LOHTCPTM= 293.1      AHC = 2093.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2600E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 10.12      (E)
BVP = 1760.      (E) CVP = -0.1500      (E) VFUPRND= 348.1      VPLWRBND= 333.1      AVCP = 0.2684E+05(E)
BVCP = 143.6      (E) CVCP = -0.6896E-01(E) DVCP = -0.3274E-04(E) VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.3600E+06(E) HTCOMBNTN= -0.1200E+08(E) HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

BURNRATE= 0.3340E-04

UPTOXLIM= 0.5000E-04(E)

FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MCL  CHEMNAME = METHALLYL CHLORIDE      PATHCODE = A  T  U  V  W
MOLEWT = 90.55      NBP = 345.4      NFP = 193.0      (E) CRITTEMP=
DENSITY = 926.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1219.      (E) BRHO = -1.000      (E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.1      LDWRBND= 273.1      LQVISBND= 303.1      LQVISTMP=
AVIS = 0.0000E+00(E) BVIS = 0.0000E+00(E) LVUPRBD= 303.1      LQTHRCND= 0.1279      (E)
LTHCNTMP= 293.1      ACCN = 0.1279      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPTP= 1926.      (E) LQHTCPTM= 293.1      AHC = 698.6      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFIENS= 0.2500E-01(E) SFTNTEMP= 293.1      INTFTENS= 0.3200E-01(E) INTFTTMP= 293.1
SOLUBPNT= 0.1000      (E) SOLUBTMP= 293.1      A = 9.881      AVP = 9.881
BVP = 1684.      CVP = -0.1500      VFUPRBD= 348.1      VPLWRBND= 283.1      AVCP = 0.1529E+05(E)
BVCP = 350.7      (E) CVCP = -0.2077      (E) DVCP = 0.4761E-04(E) VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION= 0.3700E+06      LHTVAPOR= 0.3700E+06      HTCOMSTN= -0.2700E+08(E) HTDECOMP=
HTREACTN= 0.3700E+06      HTPOLYMR= 0.3700E+06      UPFLMLIM= 9.300      BURNRATE= 0.7348E-04
TOXINHAL= 0.3700E+06      INHALCNC= 0.3700E+06      INHALTME= 0.3700E+06      LOTOXLIM=
LAFETOX = 0.3700E+06      ABFLMTMP= 0.3700E+06      MOLRATIO= 0.3700E+06      AIRFUEL =
MOLFRAC = 0.3700E+06      FLMETEMP= 0.3700E+06
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MCN      CHEMNAME = MERCURIC CYANIDE      PATHCODE = SS
MOLECWt = 252.6      NBP =
DENSITY = 4000.      DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 11.10      SOLUBTMP= 298.1
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.4400E-02      INHALCNC=
LATETOX =
MOLFRAC =
NFP =
SHPS*ATE=S
LDLWRBND=
LVUPRBNB=
BCON =
AHC =
SFTNTEMP=
A = -42.67
VFUPRBNB=
DVCP =
HTCOM*STN=
LOFLMLIM=
INHALTIME=
MOLRATIO=
CRITTEMP=
ARHO =
LQVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTTNP=
AVP = 0.1800
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04(E
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MCP **CHEMNAME = METHYLCYCLOPENTANE**

PATHCODE = A T U V W

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MCR
CHEMNAME = MERCURY

PATHCODE = A X

[illegible]

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MCT  CHEMNAME = METHYLCYCLOPENTADIENYLMANGANESE TRICARB-  PATHCODE = A  X  Y
MOLEWT = 218.1  NBP = 506.0  NFP = 274.0  CRITTEMP=  CRITPRES=
DENSITY = 1390.  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1683.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.1  LDWRBND= 274.1  LQVISPNT=  LQVISTMP=
AVIS =  BVIS =  LVUPRBD=  LVLWRBND=  LQTHRCND=
LTHCNTMP=  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 1256.  (E) LQHTCPTM= 293.1  AHC = 1256.  (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 283.1  SURFTENS=  SFTNTEMP=  INTFTENS=  INTFTTMP=
SOLUBPNT= 0.7000E-02  SOLUBTMP= 298.1  A =  B =  AVP = 11.37
BVP = 3088.  CVP = -0.1500  VFUPRBD= 373.1  VPLWRBND= 288.1  AVCP =
BVCP =  CVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTCOMSTN= -0.2300E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
TOXINHAL= 0.1000  INHALCNC=  INHALTME=  LOTOXLIM=  UPTOXLIM= 0.5000E-04(E)
LAETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MEK CHEMNAME = METHYL ETHYL KETONE

PATHCODE = A P

5
R
Q

MOLECW	WT	=	72.11	NBP	=	352.8	NFP	=	186.9	CRITTEMP=	535.7	CRITPRES=	0.4150E+07
--------	----	---	-------	-----	---	-------	-----	---	-------	-----------	-------	-----------	------------

MOLECWt =	72.11	NBP	=	352.8	NFP	=	186.9	CRITTEMP=	535.7	CRITPRES=	0.4150E+07
-----------	-------	-----	---	-------	-----	---	-------	-----------	-------	-----------	------------

```
DENSITY = 806.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1099.      BRHO      = -1.0000
```

```
DENSITY = 806.0 DENSTEMP= 293.2 SHPSTATE=L ARHO = 1099. BRHO = -1.0000
```

CRHO	=	0.0000E+00	LDUPREND=	323.2	LDLWFSND=	273.2	LQVISPNT=	LQVISTMP=
------	---	------------	-----------	-------	-----------	-------	-----------	-----------

CRHO	=	0.0000E+00	LDUPREND=	323.2	LDLWFSND=	273.2	LQVISPNT=	LQVISTMP=
------	---	------------	-----------	-------	-----------	-------	-----------	-----------

AVIS	=	BVIS	=	LVUPRND=	LVLRND=	LQTHRCND=
------	---	------	---	----------	---------	-----------

AVIS	=	BVIS	=	LVUPRND=	LVLRND=	LQTHRCND=
------	---	------	---	----------	---------	-----------

LTCNTMP=	ACON	=	BCCN	=	LTCUPBND=	LTCLOBND=
----------	------	---	------	---	-----------	-----------

LTCNTMP=	ACON	=	BCCN	=	LTCUPBND=	LTCLOBND=
----------	------	---	------	---	-----------	-----------

LQHTCPPT=	2194.	LQHTCPTM=	293.2	AHC	=	1703.	BHC	=	1.675	LHCUPBND=	313.2
-----------	-------	-----------	-------	-----	---	-------	-----	---	-------	-----------	-------

LQHTCPPT=	2194.	LQHTCPTM=	293.2	AHC	=	1703.	BHC	=	1.675	LHCUPBND=	313.2
-----------	-------	-----------	-------	-----	---	-------	-----	---	-------	-----------	-------

LHCL0BND=	233.2	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
-----------	-------	-----------	-----------	-----------	-----------

LHCL0BND=	233.2	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
-----------	-------	-----------	-----------	-----------	-----------

SOLUBPNT=	27.00	SOLUBTMP=	293.2	A	=	B	=	AVP	=	9,104
-----------	-------	-----------	-------	---	---	---	---	-----	---	-------

SOLUBPNT=	27.00	SOLUBTMP=	293.2	A	=	B	=	AVP	=	9,104
-----------	-------	-----------	-------	---	---	---	---	-----	---	-------

BVP	=	1216.	CVP	=	-55.86	VFUPRND=	393.2	VPLWRND=	253.2	AVCP	=	2931.
-----	---	-------	-----	---	--------	----------	-------	----------	-------	------	---	-------

BVP	=	1216.	CVP	=	-55.86	VFUPRND=	393.2	VPLWRND=	253.2	AVCP	=	2931.
-----	---	-------	-----	---	--------	----------	-------	----------	-------	------	---	-------

BVCP	=	459.3	CVCP	=	-0.2135	DVCP	=	0.0000E+00	VHCUPBND=	600.0	VHCL0BND=	250.0
------	---	-------	------	---	---------	------	---	------------	-----------	-------	-----------	-------

BVCP	=	459.3	CVCP	=	-0.2135	DVCP	=	0.0000E+00	VHCUPBND=	600.0	VHCL0BND=	250.0
------	---	-------	------	---	---------	------	---	------------	-----------	-------	-----------	-------

```
HTFUSIGN= 0.1043E+06 LHTVAPOR= 0.4438E+06 HTCOWBTN= -0.3136E+08 HTDECOMP= HTSOLUTN= -0.2000E+05(E
```

```
HTFUSIGN= 0.1043E+06 LHTVAPOR= 0.4438E+06 HTCOWBTN= -0.3136E+08 HTDECOMP= HTSOLUTN= -0.2000E+05(E
```

```
HTREACTN=
HTPOLYMR=
LOFLMLIM= 1.800
UPFLMLIM= 11.50
BURNRATE=
```

```
HTREACTN=
HTPOLYMR=
LOFLMLIM= 1.800
UPFLMLIM= 11.50
BURNRATE=
```

TOXINHAL=	200.0	INHALCNC=	INHALTIME=	LOTOXCLIM=	0.5000E-03	UPTOXCLIM=	0.5000E-02
-----------	-------	-----------	------------	------------	------------	------------	------------

TOXINHAL=	200.0	INHALCNC=	INHALTIME=	LOTOXCLIM=	0.5000E-03	UPTOXCLIM=	0.5000E-02
-----------	-------	-----------	------------	------------	------------	------------	------------

```

LAETOX =
ABFLMTMP=
MOLRATIO=
AIRFUEL =
FINETEMP=

```

```

LAETOX =
ABFLMTMP=
MOLRATIO=
AIRFUEL =
FINETEMP=

```

MOLFRAC =

MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MEP  CHEMNAME = METHYLETHYLPIRIDINE  PATHCODE = A  P  Q  T  U
MOLEWT = 121.2  NBP = 451.0  NFP = 202.9  CRITTEMP=  CRITPRES=
DENSITY = 922.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1215.  BRHO = -1.0000
CRHO = 0.0000E+00  LDUPRSD= 303.2  (E) LVUPRSD= 283.2  (E) LVLWRSD= 283.0  (E) LQTHRCND= 0.2000E-02(E) LQVISTMP= 293.0 (E)
AVIS = -13.40  (E) BVIS = 2100.  (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0  (E) LTCLOBND= 283.0  (E) LHCUPBND= 313.0 (E)
LTHCNTMP= 293.0  (E) ACON = 0.1500  (E) AHC = 2000.  (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LQHTCPPT= 2000.  (E) LQHTCPTM= 293.0  (E) SFNTTEMP= 293.0  (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E)
LHCLOBND= 283.0  (E) SURFTENS= 0.2500E-01(E) SFNTTEMP= 293.0  (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT= 1.200  SOLUBTMP= 293.2  A = B =  AVP = 9.773 (E)
BVP = 2150.  (E) CVP = 0.0000E+00(E) VFUPRSD= 450.0  (E) VPLWRSD= 300.0  (E) AVCP =  VHCLOBND=
BVCP =  CVCP =  DVCP =  VHCUPBND=
HTFUSION=  LHTVAPOR= 0.3400E+06(E) HTCOMBTN= -0.3890E+08(E) HTDECOMP=  HTSOLUTN= -0.3000E+05(E)
HTREACTN=  HTPOLYMR=  LOFLWLIM= 1.100  UPFLMLIM= 6.600  BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =  FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MFA  CHEMNAME = MOTOR FUEL ANTI-KNOCK COMPOUNDS CONTAINI  PATHCODE = A  X  Y
MOLEWT =          NBP      = 367.0 (E) NFP      =          CRITTEMP=
DENSITY = 1500. (E) DENSTEMP= 288.2          SHPSTATE=L          ARHO      = 780.0 (E) BRHO      = 0.0000E+00(E)
CRHO      = 0.0000E+00(E) LDUPRBND= 313.0 (E) LDLWRBND= 283.0 (E) LOVISPT= 0.5800E-02(E) LQVISTMP= 293.0 (E)
AVIS      = -18.80 (E) BVIS      = 4000. (E) LVUPRBND= 313.0 (E) LVLWRBND= 283.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACCN      = 0.1500 (E) BCON      = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOEND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC      = 2000. (E) EHC      = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.4500E-01(E) INTFTIMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A      =          E      =          AVP      = 9.641 (E)
BVP      = 2086. (E) CVP      = 0.0000E+00(E) VFUPRBND= 450.0 (E) VPLWRBND= 300.0 (E) AVCP      = 0.1990E+05(E)
BVCP      = 1073. (E) CVCP      = -0.6010 (E) DVCP      = 0.0000E+00(E) VHCUPBND= 500.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=          LHTVAPOR= 0.2350E+06(E) HTCOM:STN= -0.4240E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =          FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MFM CHEMNAME = METHYL FORMATE

PATHCODE = A P Q R S

MOLEWT = 60.10	NBP = 305.0	NFP = 173.4	CRITTEMP = 487.0	CRITPRES = 0.6000E+07
DENSITY = 974.0	DENSTEMP = 293.1	SHSTATE=L	ARHO = 1382.	(E) BRHO = 1.400 (E)
CRHO = 0.0000E+00(E)	LDUPRND = 303.1	LDLWRBND = 273.1	LOVISPAT = 0.3560E-03	LOVISTMP = 293.1
AVIS = -10.68	BVIS = 804.0	LVUPRND = 313.1	LVLWRBND = 273.1	LQTHRCND = 0.1896
LTHCNTMP = 303.1	ACON = 0.2601	BCON = -0.2326E-03	LTCUPBND = 303.1	LTCLOBND = 273.1
LQHTCPT = 2156.	LQHTCPTM = 293.1	AHC = 2156.	LHCUPBND = 303.1	LHCUPBND = 303.1
LHCLOBND = 273.1	SURFTENS = 0.2500E-01	SFTNTMP = 293.1	INTFTMP =	INTFTMP =
SOLUBPNT = 30.00	SOLUBTMP = 293.1	A =	AVP =	AVP = 10.04
BVP = 1537.	CVP = -0.1500	VFUPRND = 308.1	AVCP =	AVCP = 8433. (E)
BVCP = 234.7 (E)	CVCP = -0.1427 (E)	DVCP = 0.3358E-04(E)	VHCLOBND = 550.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.4690E+06	HTCOMYSTN = -0.1620E+08	HTSOLUTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 5.000	BURNRATE = 0.4175E-04	BURNRATE =
COXINHAL = 100.0	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02	UPTOXLIM = 0.1500E-01
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MHZ CHEMNAME = METHYLHYDRAZINE

PATHCODE = A P Q R S

MOLEWT = 46.10	NBP = 360.7	NFP = 220.8	CRITTEMP= 585.0	CRITPRES= 0.8250E+07
DENSITY = 878.0	DENSTEMP= 293.1	SHPSSTATE=L	ARHO = 1171.	BRHO = -1.000
CRHO = 0.0000E+00	LDUPRBND= 313.1	LDLWRBND= 273.1	LOVISPNT= 0.8700E-03	LOVISTMP= 293.1
AVIS = -12.82	BVIS = 1692.	LVUPRBND= 313.1	LVLWRBND= 253.1	LOTHRCND= 0.2500
LTHCNTMP= 293.1	ACON = 0.3385	BCON = -0.3024E-03	LTCUPBND= 333.1	LTCLOBND= 253.1
LQHTCPT= 2931.	LQHTCPTM= 293.1	AHC = 2563.	BHC = 1.256	LHCUPBND= 313.1
LHCLOBND= 253.1	SURFTENS= 0.3430E-01	SFTNTEMP= 293.1	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 10.66
BVP = 2040.	CVP = -0.1500	VFUPRBND= 363.1	VPLWRBND= 283.1	AVCP = 0.2868E+05
BVCP = 144.4	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBND= 500.0	VHCLOBND= 250.0
HTFUSION=	LHTVAPOR= 0.8750E+06	HTCOMBTN= -0.2831E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM= 2.500	UPFLMLIM= 98.00	BURNRATE= 0.3340E-04
TOXINHAL= 0.2000	INHALCNC= 90.00	INHALTNE= 600.0	LOTOXLIM=	UPTOXLIM= 0.5000E-04(E
LATEFOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MIC  CHEMNAME = METHYL ISOBUTYL CARBINOL      PATHCODE = A  P  O  T  U
MOLEWT = 102.2      NBP = 405.0      NFP = 183.0      (E) CRITTEMP= 564.0      CRITPRES=
DENSITY = 807.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1158.      BRHO = -1.200
CRHO = 0.0000E+00      LDUPREND= 333.2      LDLWRBND= 273.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPBND=      LVLWRBND=      LQTHRCND= 0.1600      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1600      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 278.0      (E)
LOHTCPPT= 2177.      LOHTCPTM= 293.2      AHC = 949.7      BHC =      LHCUPBND= 303.2
LHCLOBND= 273.2      SURFIENS= 0.2280E-01      SFTNTEMP= 293.2      INTFTENS= 0.2500E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT= 1.600      SOLUBTMP= 293.2      A =      B =      AVP = 10.61
BVP = 2234.      CVP = -6.260      VUPBND= 423.2      VPLWRBND= 283.2      AVCV = 7063.
BVCP = 640.6      CVCP = -0.3643      DVCP = 0.8206E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3772E+06      HTCOMBNTN= -0.3870E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.000      UPFLMLIM= 5.500      BURNRATE=
TOXINHAL= 25.00      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PATHCODE = II

MOLECWT =	454.9	NBP	=	627.0	NFP	=	530.0	CRITTEMP=	
DENSITY =	6300.	DENSTEMP=		293.1	SHPSTATE=S			ARHO	=
CRHO	=	LDUPREND=			LDLWEND=			LQVISPNT=	
AVIS	=	BVIS	=		LVUPRND=			LVLWRBD=	
LTHCNTMP=		ACON	=		BCON	=		LTCLOBND=	
LQHTCPPT=		LQHTCPTM=			AHC	=		EHC	=
LHCLGBND=		SURFTENS=			SFTNTEMP=			INTFTTMS=	
SOLUBPNT=	0.4700E-02	SOLUBTMP=		290.6	A	=	-0.6791E-01	B	=
BVP	=	CVP	=		VFUPRND=			VPLWRBD=	
BVCP	=	CVCP	=		DVCP	=		VHCUPBD=	
HIFUSION=		LHTVAPOR=			HTCOXSTN=			HTDECOMP=	
HTREACTN=		HTPOLYMR=			LOFLMLIM=			UPFLMLIN=	
TOXINHAL=	0.2500E-02	INHALLCNC=			INHALTME=			LOTOXLIN=	
LATETOX	=	ABFLMTMP=			MOLRATIO=			AIRFUEL	=
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MIK      CHEMNAME = METHYL ISOBUTYL KETONE      PATHCODE = A  P  Q  T  U
MOLECWt = 100.2      NBP      = 389.4      NFP      = 189.0      CRITTEMP= 571.5      CRITPRES= 0.3270E+07
DENSITY = 802.0      DENSITY= 293.2      SHPSTATE=L      ARHO      = 1078.      BRHO      = -0.9400
CRHO      = 0.0000E+00      LDUPRND= 323.2      LDLWRND= 273.2      LQVISPNT= 0.3800E-02      LQVISTMP= 298.2
AVIS      =      BVIS      =      LVUPRND=      LVLWRND=      LOTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCUPSD=      LTCLOBND=
LQHTCPPT= 1909.      LQHTCPTM= 293.2      AHC      = 1234.      BHC      = 2.303      LHCUPBND= 373.2
LHCLOBND= 233.2      SURFTENS= 0.2360E-01      SFTNIEMP= 293.2      INTFTENS= 0.1500E-01(E)      INTFTTMP= 293.0 (E)
SOLUBPNT= 2.000      SOLUBTMP= 293.2      A      =      B      =      AVP      = 8.950
BVP      = 1257.      CVP      = -70.76      VFUPRND= 423.2      VPLWRBD= 273.2      AVCP      = -1256.
BVCP      = 590.3      CVCP      = -0.3433      DVCP      = 0.7955E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3454E+06      HTCOVSTN= -0.2420E+08(E)      HTDECOMP=      HTSOLUTN= -0.2000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLWLM= 1.400      UPFLMLIM= 7.500      BURNRATE=
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PATHCODE = RR

98.06	MOLECWT =	NBP	=	473.0	NFP	=	326.0	CRITPRP=
1430.	DENSITY =	DENSTEMP=	288.2	SHPSTATE=S	SHPRHO =	BRHO	=	
	CRHO =	LDUPREND=		LDLWRBND=	LDLWSPNT=	LQVISTMP=		
	AVIS =	BVIS =		LVUPREND=	LVLWRBND=	LQTHRCND=		
	LTHCNTMP=	ACON =		BCON =	LTCUPBND=	LTCLOBND=		
	LQHTCPPT=	LQHTCPTM=		AHC =	BHC =	LHCUPBND=		
	LHCLOBND=	SURFTENS=		SFTNTEMP=	INTFTENS=	INTFTTMP=		
	SOLUBPNT=	SOLUBTMP=		A =	B =	AVP =		
	BVP =	CVP =		VFUPREND=	VPLWRBND=	AVCP =		
	BVCP =	CVCP =		DVCP =	VHCUPBND=	VHCLOBND=		
	HTFUSION=	LHTVAPOR=		HTCOMBNTN=	-0.1381E+08	HTSOLUTN=	-0.3559E+06	
	HTREACTN=	HTPOLYMR=		LOFLMLIM=	1.400	BURNRATE=	0.2333E-04	
0.2500	TOXINHAL=	INHALCNC=		INHALTIME=		UPTOXLIM=	0.5000E-03	
	LATETOX =	ABFLMTMP=		MOLRATIO=		FLMETEMP=		
	MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MLI CHEMNAME = MALEIC ACID

PATHCODE = SS

MOLEWT = 116.1	NEP = 403.0	CRITTEMP=	CRITPRES=
DENSITY = 1590.	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	LVUPRBNB=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SFINTEMP=	INTFIENS=	INTFTTMP=
SOLUBPNT= 79.00	A =	B =	AVP =
BVP =	VFUPRBNB=	VPLWRBND=	AVCP =
BVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	HTCOMSTN= -0.1170E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	LOFLWLM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAETOX =	ABFLMTMP=	AIRFUEL =	FLMETEMP=
MOLFRAC =			

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MMC	CHEMNAME = METHYL MERCAPTAN	PATHCODE = A	B	C	K	L	M	N	
MOLECGWT	= 48.10	NBP	= 279.4	NFP	= 150.0	CRITTEMP=	70.0	CRITPRES=	0.7250E+07
DENSITY	= 892.0	DENSTEMP=	279.1	SHSTATE=L		ARHO	= 1282	BRHO	= -1.400
CRHO	= 0.0000E+00	LDUPRBND=	313.1	LDLWRBND=	253.1	QVISPNT=	0.1980E-03	LQVISTMP=	279.1
AVIS	= -9.916	BVIS	= 387.0	LVUPRBND=	313.1	LVLWRBND=	233.1	LQTHRCND=	0.1651
LTHCNTMP=	279.1	ACON	= 0.4017	BCON	= -0.8490E-03	LTCUPBND=	313.1	LTCLOBND=	253.1
LQHTCPPT=	1846.	LQHTCPTM=	279.1	AHC	= 1556.	BHC	= 1.047	LHCUPBND=	313.1
LHCLOBND=	253.1	SURFTENS=	0.3100E-01	SFTNTEMP=	278.1	INTFTENS=		INTFTTMP=	
SOLUBPNT=	2.400	SOLUBTMP=	288.1	A	=	B	=	AVP	= 10.13
BVP	= 1432.	CVP	= -0.1500	VFUPRBND=	293.1	VPLWRBND=	233.1	AVCP	= 0.2626E+05
BVCP	= 80.81	CVCP	= 0.0000E+00	DVCP	= 0.0000E+00	VHCUPBND=	600.0	VHCLOBND=	250.0
HTFUSION=		LHTVAPOR=	0.5100E+06	HTCOMSTN=	-0.2570E+08	HTDECOMP=		HTSOLUTN=	
HTRACTN=		HTPOLYMR=		LOFLMLIM=	3.900	UPFLMLIM=	21.80	BURNRATE=	0.6346E-04
TOXINHAL=	0.5000	INHALCNC=	20.00	INHALTIME=	300.0	LOTOXLIN=		UPTOXLIM=	
LATETOX	=	ABFLMTMP=		MOLRATIO=	1.000	(E) AIRFUEL	= 8.562	(E) FLMETEMP=	
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MMM	CHEMNAME = METHYL METHACRYLATE	PATHCODE = A P O R S Z							
MOLECW	= 100.1	NBP	= 374.2	NFP	= 225.0	CRITTEMP=	567.0	CRITPRES=	0.3300E+07
DENSITY	= 945.0	DENSTEMP=	293.2	SHPSTATE=L		ARHO	= 1268.	BRHO	= -1.100
CRHO	= 0.0000E+00	LDPBND=	323.2	LDLRBND=	273.2	LQVISPT=	0.5600E-03	LQVISTMP=	293.2
AVIS	= -11.33	BVIS	= 1131.	LVUPRBD=	333.2	LVLWRBD=	273.2	LOTHRCND=	0.1605
LTHCNTMP=	293.2	ACON	= 0.3107	BCON	= -0.5117E-03	LTCUPBND=	373.2	LTCLOBND=	263.2
LQHTCPPT=	1871.	LQHTCPTM=	293.2	AHC	= 1196.	BHC	= 2.303	LHCUPBND=	373.2
LHCLGBND=	263.2	SURFTENS=	0.2800E-01	SFTNTIMP=	293.2	INTFTENS=	0.4000E-01(E)	INTFTTMP=	293.0 (E
SOLUBPNT=	1.500	SOLUBTMP=	293.2	A	=	B	=	AVP	= 9.037
BVP	= 1290.	CVP	= -55.16	VFUPRBD=	413.2	VPLWRBD=	263.2	AVCP	= 0.1306E+05
BVCP	= 544.3	CVCP	= -0.2763	DVCP	= 0.3266E-04	VHCUPBND=	600.0	VHCLGBND=	250.0
HTFUSION=		LHTVAPOR=	0.3224E+06	HTCOMBTN=	-0.2640E+08(E)	HTDECOMP=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=	-0.5778E+06	LOFLWLM=	2.100	UPFLMLIN=	12.50	BURNRATE=	
TOXINHAL=	100.0	INHALLCNC=		INHALTME=		LOTOXLIM=	0.5000E-02	UPTOXLIM=	0.1500E-01
LATETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=	
MOLFRAC	=								

[illegible]

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/09/04 PAGE118 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MNT	CHEMNAME = MERCURIC NITRATE	PATHCODE = SS
MOLEWT =	342.6	NBP =
DENSITY =	4300.	DENSTEMP =
CRHO =		LDUPRND =
AVIS =		BVIS =
LTHCNTMP =		ACON =
LQHTCPT =		LQHTCPTM =
LHCLOBND =		SURFTENS =
SOLUBPNT =		SOLUBTMP =
BVP =		CVP =
BVCP =		CVCP =
HTFUSION =		LHTVAPOR =
HTREACTN =		HTPOLYMR =
TOXINHAL =	0.3300E-02	INHALCNC =
LATETOX =		ABFLMTMP =
MOLFRAC =		MOLRATIO =
CRITPRES =		CRITTEMP =
BRHO =		ARHO =
LQVISTMP =		LOVISPT =
LQTHRCND =		LVLWRBND =
LTCLOBND =		LTCUPBND =
LHCUPBND =		BHC =
INTFTTMP =		INTFTENS =
AVP =		B =
AVCP =		VPLWRBND =
VHCLOBND =		VHCUPBND =
HTSOLUTN =		HTDECOMP =
BURNRATE =		UPFLMLIM =
UPTOXLIM =		LCTOXLIM =
FLMETEMP =		AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MOC CHEMNAME = METHOXYCHLOR

PATHCODE = II

MOLECWT = 345.7	NBP =	NFP = 356.0	(E) CRITTEMP=	CRITPRES=
DENSITY = 1410.	DENSTEMP= 298.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWREND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPREND=	LVLWREND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPREND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 0.1000E-04	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPREND=	VPLWREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.6500	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PATHCODE = 11

MOLECCWT =	216.6	NBP	=	NFP	=	CRITTEMP=	CRITPRES=	
DENSITY =	0.1110E+05	DENSTEMP=	293.1	SHPSSTATE=S	ARHC	=	BRHO	=
CRHO	=	LDUPREND=		LDLWFSND=	LOVISPAT=		LOVISIMP=	
AVIS	=	BVIS	=	LVUPRSND=	LVLRBND=		LOTHRCND=	
LTHCNTMP=		ACON	=	BCON			LTCLOBND=	
LQHTCPPT=		LOHTCPTM=		AHC	=	BHC	LHCUPBND=	
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=	
SOLUBPNT=		SOLUBTMP=		A	=	B	AVP	=
BVP	=	CVP	=	VFUPRSND=		VPLWRBND=	AVCP	=
BVCP	=	CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=	
HTFUSIGN=		LHTVAPOR=		HTCOMSTN=		HTDECOMP=	HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=	
TOXINHAL=	0.5200E-02	INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=	
LAETETOX	=	ABFLWMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=
MOLFRAC	=							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MPA  CHEMNAME = MONOISOPROPANOLAMINE      PATHCODE = A  P  Q
MOLEWT = 75.11      NBP = 433.0      CRITTEMP= 501.0      CRITPRES= 0.5900E+07
DENSITY = 961.0      DENSTEMP= 293.2      SHPSRATE=L      ARHO = 1201.      BRHO = -0.8200
CRHO = 0.0000E+00      LDUPRND= 373.2      LDWRBND= 278.2      LQVISPNT= LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LOHTCPPT= 2847.      LOHTCPIM= 293.2      AHC = 1620.      EHC = 4.187      LHCUPBND= 303.2
LHCLOBND= 284.2      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 11.45
BVP = 2789.      CVP = 0.4004E-01      VFUPRND= 423.2      VPLWRBND= 283.2      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSIGN=      LHTVAPOR= 0.6322E+06      HTCOMSTN: -0.3220E+08(E)      HTDECOMP=      HTSOLUTN= -0.4000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.200      UPFLMLIM= 12.00      BURNRATE=
TOXINHAL= 5.000      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/09/10 PAGE122/A
 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MPG	CHEMNAME =	MAGNESIUM PERCHLORATE	PATHCODE = SS	
	MOLECW =	223.2	NBP =	
	DENSITY =	2210.	DENSTMP =	293.1
	CRHO =		LDUPRND =	
	AVIS =		BVIS =	
	LTHCNTMP =		ACON =	
	LQHTCPT =		LQHTCPT =	
	LHCLOBND =		SURFTENS =	
	SOLUBPNT =	99.10	SOLUBTMP =	293.1
	BVP =		CVP =	
	BVCP =		CVCP =	
	HTFUSION =		LHTVAPOR =	
	HTREACTN =		HTPOLYMR =	
	TOXINHAL =		INHALCNC =	
	LATETOX =		ABFLMTMP =	
	MOLFRAC =			
			NFP =	
			SHPSTATE = S	
			LDLWRND =	
			LVUPRND =	
			BCON =	
			AHC =	
			SFTNTMP =	
			A =	-12.30
			VFUPRND =	
			DVCP =	
			HTCOMSTN =	
			LOFLMLIM =	
			INHALTME =	
			MOLRATIO =	
			CRITTEMP =	
			ARHO =	
			LOVISPNT =	
			LVLWRND =	
			LTCUPBND =	
			BHC =	
			INTFTENS =	
			B =	0.3800
			VPLWRBND =	
			VHCUPBND =	
			HTDECOMP =	
			UPFLMLIN =	
			LOTOXLIM =	
			AIRFUEL =	
			CRITPRES =	
			BRHO =	
			LOVISTMP =	
			LQTHRCND =	
			LTCLOBND =	
			LHCUPBND =	
			INTFTIMP =	
			AVP =	
			AVCG =	
			VHCLOBND =	
			HTSOLUN =	
			BURNRATE =	
			UPTOXLIM =	
			FLMETEMP =	

F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

7 OF 10
AD-A
034 607

[illegible]

MOLEWT =	149.0	NBP =		NFP =	247.6	CRITTEMP=	CRITPRES=
DENSITY =	1420.	DENSTEMP=	293.1	SHPSTATE=L		ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWRBND=		LQVISPT=	LOVISTMP=
AVIS =		BVIS =		LVUPREND=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON =		BCON =		LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =		ERC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		B =	AVP =
BVP =	1286.	CVP =	-83.65	VFUPREND=	333.1	VPLWRBND=	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOWBTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

[illegible]

MPK	CHEMNAME = METHYL ISOPROPENYL KETONE, INHIBITED	PATHCODE = A	T	U	V	W
MOLECWt	= 84.10	NBP	= 371.0	NFP	= 219.0	CRITTEMP=
DENSITY	= 850.0	DENSTEMP=	293.1	SHPSTATE=L		CRITPRES=
CRHO	= 0.0000E+00(E)	LDUPREND=	303.1	LDLWRBND=	273.1	(E) BRHO = -1.000
AVIS	= -11.61	(E) BVIS	= 1320.	(E) LVUPRBNd=	298.1	LOVISTMP= 293.1
LTHCNTMP=	293.1	ACON	= 0.1512	(E) BCON	= 0.0000E+00(E)	LOTHRCND= 0.1512
LQHTCPPT=	2010.	(E) LQHTCPTM=	293.1	AHC	= 782.3	(E) LTCLOBND= 288.1
LHCLOBND=	283.1	SURFTENS=	0.2600E-01(E)	SFTNTEMP=	293.1	(E) LHCUPEBND= 303.1
SOLUBPNt=		SOLUBTMP=		A	=	INTFTTNP= 293.1
BVP	= 1884.	CVP	= -0.1500	VFUPRBNd=	373.1	AVP = 10.08
BVCP	= 429.1	(E) CVCP	= -0.2564	(E) DVCP	= 0.5915E-04(E)	AVCP = 7543.
HTFUSION=		LHTVAPOR=	0.4230E+06(E)	HTCOM'GTN=	-0.3600E+08(E)	VHCLOBND= 250.0
HTREACTN=		HTPOLYMR=	-0.8800E+06(E)	LOFLMLIM=	1.800	HTSOLUTN=
TOXINHAL=		INHALCNC=		INHALTME=		BURNRATE= 0.7849E-04
LATEtox	=	ABFLMTMP=		MOLRATIO=		UPTOXLiM= 0.5000E-03
MOLFRAC	=					FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MPL CHEMNAME = MORPHOLINE

PATHCODE = A P Q

MOLECWt = 87.12	NBP = 401.4	NFP = 268.4	CRITTEMP= 618.0	CRITPRES= 0.5470E+07
DENSITY = 1000.	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1323.	BRHO = -1.100
CRHO = 0.0000E+00	LDUPRBND= 323.2	LDLWRBND= 273.2	LOVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT= 2000.	(E) LQHTCPTM= 293.0	(E) AHC = 2000.	(E) BHC = 0.0000E+00(E)	LHCUPBND= 303.0 (E)
LHCLOBND= 283.0	(E) SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.939 (E)
BVP = 1978.	(E) CVP = 0.0000E+00(E)	VFUPRBND= 400.0	(E) VPLWRBND= 273.0	(E) AVCP = 0.1000E+06(E)
BVCP = 0.0000E+00(E)	CVCP = 0.0000E+00(E)	DVCP = 0.0000E+00(E)	VHCUPBND= 303.0	(E) VHCLOBND= 283.0 (E)
HTFUSION=	LHTVAPOR= 0.4254E+06	HTCOMBNTN= -0.2900E+08(E)	HTDECOMP=	HTSOLUTN= -0.3000E+05(E)
HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.800	UPFLMLIM= 10.80	BURNRATE=
TOXINHAL= 20.00	INHALCNC= 20.00	INHALTME= 900.0	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MPT  CHEMNAME = METHYL PARATHION      PATHCODE = A  X  Y
MOLEWT = 263.2      NBP = 291.0      CRITTEMP=
DENSITY = 1220.      SHPS:STATE=L      ARHO = 1220.      (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPREND= 293.2      (E) LDWRSND= 293.0      (E) LQVISPAT= 0.5800E-02(E) LQVISTMP= 293.0      (E
AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRSND= 303.0      (E) LVLRBBD= 293.0      (E) LQTHRCND=
LTHCNTMP= ACON = BCON = LTCUPBBD= LTCLOBND=
LQHTCPPT= 2600.      (E) LQHTCPTM= 298.0      (E) AHC = 2600.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0      (E
LHCLOBND= 293.0      (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 298.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 298.0      (E
SOLUBPNT= 0.2500E-02      SOLUBTMP= 293.2      A = B = AVP =
BVP = CVP = VFUPRSND= VPLWRBBD= AVCP =
BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
HTFUSION= LHTVAPOR= HTCONSTN= -0.1670E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= 100.0      INHALCNC= INHALTME= LOTOXLIM= 0.5000E-04(E) UPTOXLIM=
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MRC   CHEMNAME = MERCURIC CHLORIDE          PATHCODE = SS
MOLEWT = 271.5      NBP      = 575.0      NFP      = 550.0
DENSITY = 5400.     DENSTEMP= 293.1      SHPSTATE=S
CRHO    =           LDUPRBD=              DLWRBND=
AVIS    =           BVIS    =              LVUPRBD=
LTHCNTMP=           ACON    =              BCON    =
LQHTCPPT=           LQHTCPTM=             AHC      =
LHCLOBND=           SURFTENS=             SFTNTMP=
SOLUBPNT= 6.500     SOLUBTMP= 293.1      A        = -37.47
BVP      = 4358.     CVP      = -0.1500   VFUPRBD= 332.1
BVCP     =          CVCP     =             DVCP     =
HTFUSION=           LHTVAPOR=             HTCOMBTN=
HTREACTN=           HTPOLYMR=             LOFLMLIM=
TOXINHAL= 0.4000E-02 INHALCNC=             INHALTME=
LAFETOX  =          ABFLMTMP=             MOLRATIO=
MOLFRAC  =
CRITPRES=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      = 12.82
AVCP     =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04(E
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MRN	CHEMNAME = MERCUROUS NITRATE	PATHCODE = II
MOLECW	= 280.6	NBP =
DENSITY	= 4780.	DENSTMP = 293.1
CRHO	=	LDUPRND =
AVIS	=	BVIS =
LTHCNTMP	=	ACON =
LQHTCPT	=	LQHTCPTM =
LHCLOBND	=	SURFTENS =
SOLUBPNT	=	SOLUBTMP =
BVP	=	CVP =
BVCP	=	CVCP =
HTFUSION	=	LHTVAPOR =
HTREACTN	=	HTPOLYMR =
TOXINHAL	= 0.4000E-02	INHALCNC =
LATETOX	=	ABFLMTMP =
MOLFRAC	=	MOLRATIO =
CRITPRES	=	CRITTEMP =
BRHO	=	ARHO =
LOVISTMP	=	LOVISPT =
LQTHRCND	=	LVLWRBND =
LTCLOBND	=	LTCUPBND =
LHCUPBND	=	BHC =
INTFTTMP	=	INTFTENS =
AVP	=	B =
AVCP	=	VPLWRBND =
VHCLOBND	=	VHCUPBND =
HTSOLUTN	=	HTDECOMP =
BURNRATE	=	UPFLMLIM =
UPTOXLIM	=	LOTOXLIM =
FLMETEMP	=	AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MRR      CHEMNAME = MERCURIOS CHLORIDE      PATHCODE = II
MOLEWT = 236.1      NBP =
DENSITY = 7150.      DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.4700E-02      INHALCNC=
LATETOX =
MOLFRAC =

NFP =
SHPSSTATE=S
LDLWRBND=
LVUPRBND=
BCON =
AHC =
SFTNTEMP=
A =
VFUPRBND=
DVCP =
LHTVAPOR=
HTPOLYMR=
INHALTME=
ABFLMTMP=

CRITTEMP=
ARHO =
LOVISPT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIN=
LOTOXLIM= 0.5000E-04
AIRFUEL =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MSA CHEMNAME = METHANEARSONIC ACID, SODIUM SALTS

PATHCODE = SS

MOLEWT = 200.0	(E) NBP =	NFP = 332.0	CRITTEMP=	CRITPRES=
DENSITY = 1500.	DENSTEMP= 293.2	SHPSTATE=L	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRSD=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRSD=	LVLWRBD=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTES=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRSD=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOWSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MSO CHEMNAME = MESITYL OXIDE

PATHCODE = A P O T U

MOLEWT = 98.20	NBP = 403.0	NFP = 227.0	CRITTEMP =	CRITPRES =	
DENSITY = 853.0	DENSTEMP = 293.1	SHPSATE=L	ARHO = 1145.	BRHO =	-1.000
CRHO = 0.0000E+00	LDUPRND = 313.1	LDLWRND = 263.1	LQVISPNT = 0.6000E-03	LQVISTMP =	293.1
AVIS = -10.39 (E)	BVIS = 870.0 (E)	LVUPRND = 303.1	LVLWRND = 283.1	LQTHRCND =	0.1512 (E)
LTHCNTMP = 293.1	ACON = 0.1512 (E)	BCON = 0.0000E+00(E)	LTCUPBND = 298.1	LTCLOBND =	278.1
LQHTCPPT = 2177.	LQHTCPTM = 293.1	AHC = 2177.	BHC =	LHCUPBND =	373.1
LHCLOBND = 293.1	SURFTENS = 0.2290E-01	SFTNTMP = 293.1	INTFTENS =	INTFTTMP =	
SOLUBPNT = 3.000	SOLUBTMP = 293.1	A = 46.97	B =	AVP =	10.27
BVP = 2108.	CVP = -0.1500	VFUPRND = 353.1	VPLWRND = 283.1	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR = 0.3700E+06	HTCONSTN = -0.3300E+08	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	0.7014E-04
TOXINHAL = 25.00	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM =	0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MSR	CHEMNAME = ALPHA-METHYLSTYRENE	PATHCODE = A T U	
MOLECW	= 118.2	NBP	= 438.0
DENSITY	= 910.0	DENSTEMP	= 293.1
CRHO	= 0.0000E+00	LDUPREND	= 303.1
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBND	=	SURFTENS	= 0.3388E-01
SOLUBPNT	= 0.6000E-01	SOLUBTMP	= 298.1
BVP	= 2300.	CVP	= -0.1500
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	= 0.3260E+06
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 100.0	INHALCNC	= 100.0
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		
		NFP	= 250.0
		SHSTATE=L	
		LDLWRSND	= 273.1
		LVUPRBN	=
		BCON	=
		AHC	=
		SFTNTMP	= 293.1
		A	=
		VFUPRBN	= 438.1
		DVCP	=
		HTCOMSTN	= -0.4110E+08
		LOFLMLIM	= 1.900
		INHALTME	= 1800
		MOLRATIO	=
		CRITTEMP	= 654.9
		ARHO	= 1174.
		LQVISPNT	= 0.9400E-03
		LVLWRBN	=
		LTCUPBN	=
		BHC	=
		INTFTENS	=
		INTFTTMP	=
		AVP	= 10.25
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	= 0.5000E-02
		FLMETEMP	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

MTA  CHEMNAME = METHYLAMINE
      PATHCODE = A B C K L M N
MOLEWT = 31.10 NBP = 266.7 CRITTEMP = 432.0 CRITPRES = 0.7470E+07
DENSITY = 693.0 DENSTEMP = 266.6 SHPSTATE = L ARHO = 1013 BRHO = -1.200
CRHO = 0.0000E+00 LDUPRBND = 313.1 LDLWRBND = 253.1 LOVISPT = 0.2500E-03 LOVISMP = 266.6
AVIS = -10.76 BVIS = 656.0 LVUPRBND = 303.1 LVLRBND = 263.1 LQTHRCND = 0.2186
LTHCNTMP = 266.6 ACON = 0.4046 BCON = -0.6978E-03 LTCURBND = 313.1 LTCLOBND = 253.1
LQHTCPT = 3362. LQHTCPTM = 266.6 AHC = 1354. EHC = 7.536 LMCUPBND = 313.1
LHCLOBND = 253.1 SURFTENS = 0.1006 SFTNTEMP = 293.1 INTFTENS = INTFTMP =
SOLUBPNT = 108.0 SOLUBTMP = 298.1 A = B = AVP = 10.47
BVP = 1458. CVP = -0.1500 VFUPRBND = 293.1 VPLWRBND = 203.1 AVCP = 0.2176E+05
BVCP = 99.94 CVCP = 0.0000E+00 DVCP = 0.0000E+00 VMCURBND = 600.0 VMCLOBND = 250.0
HTFUSION = LHTVAPOR = 0.8330E+06 HTCOMSTN = -0.3490E+08 HTDECOMP = HTSOLUTN =
HTPOLYMR = LOFLMLIM = 4.300 UPFLMLIM = 21.00 BURNRATE =
TOXINHAL = 10.00 INHALCNC = INHALTME = LOTOXLM = 0.5000E-03 UPTOXLM = 0.5000E-02
LATETOX = ABFLWTMP = MOLRATIO = 0.8125 (E) AIRFUEL = 9.932 (E) FLMETEMP =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MTB  CHEMNAME = METHYL BROMIDE
      PATHCODE = A  B  C  I  J
MOLEWT = 94.95      NBP = 276.8      CRITTEMP= 464.0      CRITPRES=
DENSITY = 1680.     DENSTEMP= 293.2      ARHO = 2440.     BRHO = -2.600
CRHO = 0.0000E+00   LDUPRBN= 353.2      LQVISPNT=      LQVISTMP=
AVIS =              BVIS =              LQTHRCND=
LTHCNTMP=          ACON =              LTCLOBND=
LOHTCPPT= 833.2     LQHTCPTM= 293.2      BHC = 0.4187     LHCUPBND= 313.2
LHCLOBND= 233.2     SURFTENS= 0.2450E-01      SFTNTMP= 288.2   INTFTMP=
SOLUBPNT= 0.9000E-01  SOLUBTMP= 293.2      A =              B = 9.085
BVP = 986.6         CVP = -34.86      VFUPRBN= 326.2   AVCP = 0.1721E+05
BVCP = 92.74        CVCP = -0.2721E-01  DVCP = 0.0000E+00  VHCLOBND= 250.0
HTFUSION=           LHTVAPOR= 0.2500E+06  HTCOMSTN= -0.7415E+07  HTSOLUTN=
HTREACTN=           HTPOLYMR=           LOFLMLIM= 10.00     UPFLMLIN= 15.00
TOXINHAL= 15.00     INHALCNC= 20.00      INHALTME= 300.0   LOTOXLIM=
LATETOX =           ABFLMTMP=           MOLRATIO=         AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTC CHEMNAME = METHYL CHLORIDE

PATHCODE = A B C D E F G

MOLECW = 50.49	NBP = 249.0	NFP = 175.5	CRITTEMP = 416.8	CRITPRES = 0.6680E+07
DENSITY = 997.0	DENSTEMP = 244.2	SHSTATE=L	ARHO = 1446.	BRHO = -1.800
CRHO = 0.0000E+00	LDUPRND = 313.2	LDLWRND = 243.2	LOVISPT = 0.3100E-03	LQVISTMP = 249.2
AVIS = -9.668	BVIS = 396.0	LVUPRND = 353.2	LVLWRND = 233.2	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 1608.	LQHTCPTM = 293.2	AHC = 1055.	BHC = 1.884	LHCUPBND = 373.2
LHCLOBND = 223.2	SURFTENS = 0.1620E-01	SFTNTMP = 293.2	INTFTENS = 0.5000E-01(E)	INTFTMP = 249.0 (E)
SOLUBPNT = 0.6000	SOLUBTMP = 293.2	A =	B =	AVP = 9.606
BVP = 1148.	CVP = 0.4004E-01	VFUPRND = 293.2	VPLWRND = 223.2	AVCP = 0.1691E+05
BVCP = 84.99	CVCP = -0.1675E-01	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.4241E+06	HTCOWSTN = -0.1230E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 8.100	UPFLMLIM = 17.20	BURNRATE = 0.3667E-04
TOXINHAL = 100.0	INHALCNC = 100.0	INHALTME = 300.0	LOTOXLIM =	UPTOXLIM =
LATE,OX =	ABFLMTMP =	MOLRATIO = 0.8333	(E) AIRFUEL = 4.078	(E) FLMETEMP =
MOLFRAC =				

SYSTEM OF UNITS

CHEMNAME : METHYL FORMAL

PATHCODE = A P Q R S

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
MTH  CHEMNAME = METHANE
      MOLEWT = 16.04      NBP = 111.7      PATHCODE = A      B      C      D      E      F      G
      DENSITY = 422.0      DENSTEMP= 113.2      SHPSTATE=L      CRITTEMP= 190.7      CRITPRES= 0.4600E+07
      CRHO = 0.0000E+00      LDUPRBD= 123.2      LDWRBND= 93.16      LQVISPNT= 0.1350E-03      LQVISTMP= 113.2
      AVIS = -12.71      BVIS = 430.0      LVUPRBD= 153.2      LVLWRBND= 93.16      LQTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
      LQHTCPPT= 3517.      LQHTCPTM= 113.2      AHC = 2491.      BHC = 9.211      LHCUPBND= 143.2
      LHCLOBND= 93.16      SURFTENS= 0.1400E-01      SFTNTEMP= 112.2      INTFTENS= 0.5030E-01(E)      INTFTTMP= 112.0 (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.737
      BVP = 389.9      CVP = -7.160      VFUPRBD= 123.2      VPLWRBND= 93.16      AVCP = 0.2504E+05
      BVCP = 25.33      CVCP = 0.3559E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.5104E+06      HTCOMBTN= -0.5005E+08      HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 5.000      UPFLMLIM= 15.00      BURNRATE= 0.2083E-03
      TOXINHAL=          INHALCNC=          INHALTME=          TOXOLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP= 2339.      (E) MOLRATIO= 1.000      (E) AIRFUEL = 17.16      (E) FLMETEMP=
      MOLFRAC =

```

PR:

MOLECULAR WEIGHT
DENSITY
CRHO
AVIS
LTMCTNT
LQHTCPCP
LHCLONB
SOLUBPP
BVP
BVCP
HTFUSIC
HTREAC
TOXINH
LA FETON
MOLFRAC

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTS	CHEMNAME = METHYLTRICHLOROSILANE	PATHCODE = A	O
MOLEWT =	149.5	NBP =	339.6
DENSITY =	1270.	DENSTMP =	298.1
CRHO =	0.0000E+00(E)	LDUPRBND =	303.1
AVIS =	-12.91	(E) BVIS =	2100.
LTHCNTMP =	293.1	ACON =	0.1512
LQHTCPPT =	1465.	(E) LQHTCPTM =	293.1
LHCLOBND =	283.1	SURFTENS =	0.2800E-01(E)
SOLUBPNT =		SOLUBTMP =	
BVP =	1627.	CVP =	-0.1500
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	0.2080E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LARETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	183.0
		SHPSTATE=L	
		LDLWRSND =	273.1
		(E) LVUPRSND =	298.1
		(E) BCON =	0.0000E+00(E)
		AHC =	1465.
		SFTNTMP =	293.1
		A =	
		VFUPRSND =	323.1
		DVCP =	
		HTCOM/STN =	-0.7000E+07(E)
		LOFLMLIM =	5.100
		INHALTME =	
		MOLRATIO =	
		UPFLMLIM =	20.00
		LOTOXLIM =	0.5000E-04
		AIRFUEL =	
		CRITPRES =	
		(E) BRHO =	-1.000
		LQVISTMP =	293.1
		LVLWRBND =	283.1
		LQTHRCND =	0.1512
		LTCLOBND =	278.1
		LHCUPBND =	303.1
		INTFTTMP =	
		AVP =	9.825
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	0.3173E-04
		UPTOXLIM =	0.5000E-03
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

MTT CHEMNAME = METHYL ACETATE

PATHCODE = A P Q R S

MOLECWT = 74.10	NBP = 330.2	NFP = 174.7	CRITTEMP= 506.9	CRITPRES= 0.4600E+07
DENSITY = 927.0	DENGTMP= 293.1	SHPSATE=L	ARHO = 1337.	BRHO = -1.400
CRHO = 0.0000E+00	LDUPRBD= 373.1	LDLWRBD= 253.1	LQVISPT= 0.3700E-03	LQVISTMP= 293.1
AVIS = -11.27	BVIS = 988.0	LVUPRBD= 373.1	LVLWRBD= 273.1	LQTHRCND= 0.1744
LTHCNTMP= 293.1	ACON = 0.3195	BCON = -0.4885E-03	LTCUPBD= 353.1	LTCLOBND= 273.1
LQHTCPPT= 2085.	LQHTCPTM= 293.1	AHC = 1410.	BHC = 2.303	LHCUPBND= 313.1
LHCLOBND= 263.1	SURFTENS= 0.2400E-01	SFTNTMP= 293.1	INTFTENS= 0.3000E-01(E)	INTFTIMP= 293.1
SOLUBPNT= 24.35	SOLUBTMP= 293.1	A =	B =	AVP = 10.29
BVP = 1744.	CVP = -0.1500	VFUPRBD= 333.1	VPLWRBD= 273.1	AVCP = 0.2506E+05
BVCP = 180.9	CVCP = 0.0000E+00	DVCP = 0.0000E+00	VHCUPBD= 600.0	VHCLOBND= 250.0
HTFUSION=	LHTVAPOR= 0.4100E+06	HTCOMSTN= -0.2150E+08	HTDECOMD=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM= 3.100	UPFLMLIM= 16.00	BURNRATE= 0.6179E-04
TOXINHAL= 200.0	INHALCNC= 400.0	INHALTME= 300.0	LOTOXLIM= 0.5000E-02	UPTOXLIM= 0.1500E-01
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

MVK	CHEMNAME = METHYL VINYL KETONE	PATHCODE = A P O R S					
	MOLECWt = 70.10	NBP = 354.6	NFP = 266.0	CRITTEMP=	CRITPRES=		
	DENSITY = 864.0	DENSTEMP= 293.1	SHPSTATE=L	ARHO = 1157.	(E) BRHO = -1.000	(E)	
	CRHO = 0.0000E+00(E)	LDUPREND= 303.1	DLWRBND= 273.1	LQVISPNT= 0.8200E-03(E)	LQVISTMP= 293.1		
	AVIS = -11.61	(E) BVIS = 1320.	(E) LVUPRBNd= 298.1	LVLWRBND= 283.1	LQTHRCND= 0.1512	(E)	
	LTHCNTMP= 293.1	ACON = 0.1512	(E) BCON = 0.0000E+00(E)	LTCUPBND= 298.1	LTCLOBND= 283.1		
	LQHTCPT= 1675.	(E) LQHTCPTM= 293.1	AHC = 1675.	(E) BHC = 0.0000E+00(E)	LHCUPBND= 298.1		
	LHCLOBND= 278.1	SURFTENS= 0.2400E-01(E)	SFTNTEMP= 293.1	INTFTENS=	INTFTTMP=		
	SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.983		
	BVP = 1765.	CVP = -0.1500	VFUPRBNd= 354.1	VPLWRBND= 293.1	AVCP = 7903.	(E)	
	BVCP = 321.4	(E) CVCP = -0.1845	(E) DVCP = 0.4086E-04(E)	VHCUPBND= 550.0	VHCLQBND= 250.0		
	HTFUSION=	LHTVAPOR= 0.4730E+06(E)	HTCOMWGTN= -0.3400E+08(E)	HTDECOMP=	HTSOLUTN=		
	HTREACTN=	HTPOLYMR= -0.1060E+07	LOFLMLIM= 2.100	UPFLMLIM= 15.60	BURNRATE= 0.7515E-04		
	TOXINHAL=	INHALLCNC=	INHALTIME=	LOTOXLIM=	UPTOXLIM= 0.5000E-04(E)		
	LATEtox =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAA CHEMNAME = NITRILOTRIACETIC ACID AND SALTS

PATHCODE = SS

MOLECW =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1000.	(E) DNSTEMP= 293.1	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRBND=	LQVISPAI=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTC'OSND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 40.00	SOLUSTMP= 298.1	A = 40.00	B = 0.0000E+00	AVP =
BVP =	CVP =	VFUPRND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAB		CHEMNAME = NABAM		PATHCODE = SS	
MOLECWT	=	256.3	NBP	=	CRITTEMP=
DENSITY	=	1140.	DENSTMP	=	293.1
CRHO	=		LDUPRBND	=	SHPSTATE=S
AVIS	=		BVIS	=	LDLWRBND=
LTHCNTMP	=		ACON	=	LVUPRBND=
LQHTCPPT	=		LQHTCPTM	=	BCON
LHCLOBND	=		SURFTENS	=	AHC
SOLUBPNT	=		SOLUBTMP	=	SFTNTMP=
BVP	=		CVP	=	A
BVCP	=		CVCP	=	VFUPRBND=
HTFUSION	=		LHTVAPOR	=	DVCP
HTREACTN	=		HTPOLYMR	=	HTCOMSTN=
TOXINHAL	=		INHALCNC	=	LOFLMLIM=
LATEOX	=		ABFLMTMP	=	INHALTME=
MOLFRAC	=			=	MOLRATIO=
					CRITPRES=
					BRHO
					LQVISTMP=
					LQTHRCND=
					LTCLOBND=
					LHCUPBND=
					INTFTTMP=
					AVP
					AVCP
					VHCLOBND=
					HTSOLUTN=
					BURNRATE=
					UPTOXLIM=
					FLMETEMP=
					0.0000E+00(E
					0.5000E-04
					0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAC CHEMNAME = NITRIC ACID

PATHCODE = A P

MOLECWT = 63.01	NBP = 362.1	NFP = 227.6	CRITTEMP=	CRITPRES=
DENSITY = 1490.	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 2010.	BRHO = -1.770
CRHO = 0.0000E+00	LDUPRND= 308.2	LDLWRBND= 273.2	LQVISPNT=	LQVISIMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT= 2010.	LQHTCPTM= 293.2	AHC = 782.3	BHC = 4.187	LHCUPBND= 298.2
LHCLOBND= 283.2	SURFTENS=	SFTNTMP=	INTFTES=	INTFTIMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.550 (E)
BVP = 1645.	(E) CVP = 0.0000E+00(E)	VFUPRND= 362.0	(E) VPLWRBND= 300.0	(E) AVCP = 0.4180E+05(E)
BVCP = 0.0000E+00(E)	CVCP = 0.0000E+00(E)	DVCP = 0.0000E+00(E)	VHCUPBND= 400.0	(E) VHCLOBND= 300.0 (E)
HTFUSION=	LHTVAPOR= 0.4982E+06	HTCOMSTN=	HTDECOMP=	HTSOLUTN= -0.3000E+06(E)
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 2.000	INHALCNC= 15.00	INHALTME= 300.0	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAIFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NAL    CHEMNAME = 4-NITROANILINE          PATHCODE = II
MOLEWT = 138.1      NBP      = 609.0      NFP      = 419.0      CRITTEMP=
DENSITY = 1440.     DENSTEMP= 293.1      SHPSTATE=S  ARHO      =
CRHO     =          LDUPRBN=          BVIS      =          LQVISPNT=
AVIS     =          ACON     =          LQTHRCND=
LTHCNTMP=          LQHTCPTM=          LTCUPBND=
LHCLOBND=          SURFTENS=          BHC       =
SOLUBPNT=          SOLUBTMP=          INTFTIMP=
BVP      =          CVP      =          AVP       =
BVCP     =          CVCP     =          AVCP      =
HTFUSION=          LHTVAPOR=          VHCLOBND=
HTREACTN=          HTPOLYMR=          HTSOLUTN=
TOXINHAL= 1.000     INHALCNC=          HTDECOMP=
LAFETOX  =          ABFLMTMP=          UPFLMLIM=
MOLFRAC  =          MOLRATIO=          LOTOXLIM=
                                           0.5000E-03
                                           0.5000E-02
                                           FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NAO CHEMNAME = 1-NAPHTHYLAMINE PATHCODE = II

MOLECW = 143.2	NBP =	573.0	NFP =	322.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1120.	DENSTEMP =	298.1	SHPSTATE = S		ARHO =	BRHO =
CRHO =	LDUPRBND =		LDLWRBND =		LQVISPNT =	LQVISTMP =
AVIS =	BVIS =		LVUPRBND =		LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =		BCON =		LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =		AHC =		BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =		SFTNTEMP =		INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1700	SOLUBTMP =	293.1	A =		B =	AVP =
EVP =	CVP =		VFUPRBND =		VPLWRBND =	AVCP =
BVCP =	CVCP =		DVCP =		VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =		HTCONSTN =	-0.3554E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =		LOFLMLIM =		UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =		INHALTME =		LOTOXLIM =	UPTOXLIM =
LAFETOX =	ABFLMTMP =		MOLRATIO =		AIRFUEL =	FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NAS      CHEMNAME = NICKEL AMMONIUM SULFATE      PATHCODE = SS

MOLEWT = 395.0      NBP =      NFP =      CRITPRES=
DENSITY = 1920.      DENSTEMP= 293.1      SHPSIATE=S      BRHO =
CRHO =      LDUPREND=      LDWRBND=      LOVISPTI=      LOVISIMP=
AVIS =      BVIS =      LVUPRSDND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTEMP=      INTFTTMP=
SOLUBPNT= 8.450      SOLUBTMP= 293.1      A =      B =      AVP =
BVP =      CVP =      VFUPRSDND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCN =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN=      HTSOLUTN=
HTREACTION=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.5700E-01      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =
0.5000E-03      0.5000E-02

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NBR CHEMNAME = NICKEL BROMIDE

PATHCODE = SS

MOLEWT = 272.6	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 4000.	(E) DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBD=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 223.0	SOLUBTMP= 293.1	A = -128.8	S = 1.200	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.8200E-01	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLNTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCL CHEMNAME = NICKEL CHLORIDE PATHCODE = SS

MOLEWT = 237.7	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 3550.	DENSTEMP= 288.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRBND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 62.00	SOLUBTMP= 293.1	A = -58.19	B = 0.4100	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN= 0.2100E+05
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.9400E-01	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCN	CHEMNAME = NICKEL CYANIDE		PATHCODE = II	
MOLECWT =	111.0	(E) NBP =	NFP =	CRITTEMP=
DENSITY =	2400.	DENSTEMP=	298.1	SHPSSTATE=S
CRHO =		LDUPRND=		LDLWRBND=
AVIS =		BVIS =		LVUPRND=
LTHCNTMP=		ACON =		BCON =
LQHTCPPT=		LQHTCPTM=		AHC =
LHCLOBND=		SURFTENS=		SFTNTEMP=
SOLUBPNT=	0.6000E-02	SOLUBTMP=	291.1	A =
BVP =		CVP =		VFUPRND=
BVCP =		CVCP =		DVCP =
HTFUSION=		LHTVAPOR=		HTCONSTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=
TOXINHAL=		INHALCNC=	1.010	(E) INHALTIME=
LATETOX =		ABFLMTMP=		MOLRATIO=
MOLFRAC =				
				1800.
				UPFLMLIM=
				HTDECOMP=
				VHCUPBND=
				VPLWRBND=
				B =
				INTFTTMP=
				LHCUPBND=
				LTCLOBND=
				LQTHRCND=
				LQVISTMP=
				BRHO =
				CRITPRES=

PATHCODE = SS

MOLECWT =	422.5	NBP =	DENSTMP =	1150.	CRHO =	AVIS =	LTHCNTMP =	LQHTCPPT =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
DENSITY =	1150.	DENSTMP =	293.1	SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
CRHO =		LDUPRBND =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
AVIS =		BVIS =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
LTHCNTMP =		ACON =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
LQHTCPPT =		LQHTCPTM =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
LHCLOBND =		SURFTENS =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
SOLUBPNT =		SOLUBTMP =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
BVP =		CVP =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
BVCP =		CVCP =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
HTFUSION =		LHTVAPOR =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
HTREACTN =		HTPOLYMR =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
TOXINHAL =		INHALCNC =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
LARETOX =		ABFLMTMP =		SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =
MOLFRAC =				SHPSSTATE = S	LDUPRBND =	BVIS =	ACON =	LQHTCPTM =	LHCLOBND =	SOLUBPNT =	BVP =	BVCP =	HTFUSION =	HTREACTN =	TOXINHAL =	LARETOX =	MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NCT	CHEMNAME = NAPHTHA COAL TAR	PATHCODE = A	T	U	V	W
MOLECW	=	366.0	(E)	NFP	=	CRITTEMP=
DENSITY	=	860.0	(E)	DENSTEMP=	293.2	SHRSTATE=L
CRHO	=	0.0000E+00	(E)	LDLWRBND=	283.0	(E)
AVIS	=	-18.80	(E)	BVIS	=	4000.
LTHCNTMP	=	293.0	(E)	ACON	=	0.1500
LQHTCPPT	=	2000.	(E)	LQHTCPTM=	293.0	(E)
LHCLOBND	=	283.0	(E)	SURFTENS=	0.2000E-01	(E)
SOLUBPNT	=			SOLUBTMP=	A	=
BVP	=	2086.	(E)	CVP	=	0.0000E+00
BVCP	=	1073.	(E)	CVCP	=	-0.6010
HTFUSION	=			LHTVAPOR=	0.2350E+06	(E)
HTREACTN	=			HTPOLYMR=		
TOXINHAL	=	100.0		INHALCNC=	75.00	
LATETOX	=			ABFLMTMP=		
MOLFRAC	=					

CRITPRES=						
780.0	(E)	BRHO	=	0.0000E+00	(E)	
0.5800E-02	(E)	LOVISTMP=		293.0	(E)	
283.0	(E)	LQTHRCND=		0.1500	(E)	
313.0	(E)	LTCLOBND=		283.0	(E)	
0.0000E+00	(E)	LHCUPBND=		313.0	(E)	
0.4500E-01	(E)	INTFTTMP=		293.0	(E)	
		AVP	=	9.641	(E)	
300.0	(E)	AVCP	=	0.1990E+05	(E)	
500.0	(E)	VHCLOBND=		300.0	(E)	
		HTSOLUTN=				
		BURNRATE=		0.6667E-04		
0.5000E-04		UPTOXLIM=		C.5000E-03		
		FLMETEMP=				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
NFB  CHEMNAME = NICKEL FLUOROBORATE          PATHCODE = A  P
      MOLECW = NBP = 293.1
      DENSITY = 1500.
      CRHO = LDUPRND =
      AVIS = BVIS =
      LTHCNTMP = ACON =
      LQHTCPPT = LQHTCPTM =
      LHCLOBND = SURFTENS =
      SOLUBPNT = SOLUBTMP =
      BVP = CVP =
      BVCP = CVCP =
      HTFUSION = LHTVAPOR =
      HTREACTN = HTPOLYMR =
      TOXINHAL = INHALCNC =
      LATETOX = ABFLTMP =
      MOLFRAC =

      CRITPRES =
      BRHO =
      LOVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND =
      INTFTTMP =
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM = 0.5000E-02
      FLMETEMP =

      CRITTEMP =
      ARHO =
      LOVISPI =
      LVLWRBND =
      LTCUPBND =
      BHC =
      INTFTENS =
      B =
      VPLWRBND =
      VHCUPBND =
      HTDECONP =
      UPFLMLIM =
      LOTOXLIM = 0.5000E-03
      AIRFUEL =
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NFM CHEMNAME = NICKEL FORMATE PATHCODE = SS

MOLECW = 184.8	NBP =	NFP =	CRITPRES =
DENSITY = 2150.	DENSTEMP = 293.1	SHPSSTATE = S	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISTMP =
AVIS =	BVIS =	LVUPREND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT = 3.250	SOLUBTMP = 293.1	A = 0.3185	AVP =
BVP =	CVP =	VFUPREND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL = 0.1200	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NHX		CHEMNAME = NEOHEXANE		PATHCODE = A T U V W			
MOLEWT =	86.20	NBP =	322.9	NFP =	173.3	CRITTEMP=	488.8
DENSITY =	649.0	DENSTEMP=	293.1	SHSTATE=L		CRITPRES=	0.3080E+07
CRHO =	0.0000E+00	LDUPRND=	303.1	LDLWRND=	273.1	BRHO =	-1.000
AVIS =	-10.78 (E)	BVIS =	848.0	(E) LVUPRND=	303.1	LQVISTMP=	293.1
LTHCNTMP=	293.1	ACON =	0.1512	(E) BCON =	0.0000E+00(E)	LQTHRCND=	0.1512 (E)
LQHTCPPT=	2160.	LQHTCPTM=	288.1	AHC =	954.0 (E)	LTCLOBND=	283.1
LHCLOBND=	273.1	SURFTENS=	0.1630E-01	SFTNTEMP=	293.1	LHCUPBND=	303.1
SOLUBPNT=		SOLUBTMP=		A =		INTFTTMP=	293.1
BVP =	1081.	CVP =	-43.85	VFUPRND=	333.1	AVP =	8.880
BVCP =	402.4	CVCP =	0.0000E+00	DVCP =	0.0000E+00	AVCP =	0.2198E+05
HTFUSION=		LHTVAPOR=	0.3050E+06	HTCOMSTN=	-0.4489E+08	VHCLOBND=	250.0
HTREACTN=		HTPOLYMR=		LOFLMLIM=	1.200	HTSOLUTN=	
TOXINHAL=		INHALCNC=		INHALTME=		BURNRATE=	0.1536E-03
LAFETOX =		ABFLMTMP=		MOLRATIO=		UPTOXLIM=	
MOLFRAC =						FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NIC      CHEMNAME = NICOTINE
      MOLECW = 162.2      NBP = 523.0      CRITTEMP =
      DENSITY = 1000.      DENSTEMP = 293.1      SHPSTATE = L      ARHO = 1293.      (E) BRHO = -1.000      (E)
      CRHO = 0.0000E+00(E)      LDUPRBND = 303.1      DLWRBND = 263.1      LVUPRBND = 0.1512      (E)
      AVIS =
      LTHCNTMP = 293.1      ACON = 0.1512      (E)      BCON = 0.0000E+00(E)      LTCLOBND = 303.1      LTCLOBND = 273.1
      LQHTCPT = 1758.      LQHTCPTM = 293.1      AHC = 1758.      (E)      EHC = 0.0000E+00(E)      LHCUPBND = 303.1
      LHCLOBND = 273.1      SURFTENS = 0.3861E-01      SFTNTMP = 293.1      INTFTENS = 0.2000E-01(E)      INTFTMP = 293.1
      SOLUBPNT =
      BVP = 2396.      CVP = -0.1500      VFUPRBND = 523.1      VPLWRBND = 373.1      AVCP =
      BVCP =
      HTFUSION =
      HTREACTN =
      TOXINHAL = 0.6900E-01      INHALCNC =
      LATETOX =
      MOLFRAC =
      CRITPRES =
      LQVISTMP =
      LQTHRCND = 0.1512      (E)
      LQTHRCND =
      LTCLOBND = 303.1      LTCLOBND = 273.1
      LHCUPBND = 303.1
      INTFTMP = 293.1
      AVP =
      AVCP =
      VHCLOBND =
      HTSOLUTN =
      BURNRATE =
      UPTOXLIM = 0.5000E-04      UPTOXLIM = 0.5000E-03
      FLMETEMP =
      LOTOXLIM = 0.5000E-04      LOTOXLIM =
      AIRFUEL =
      MOLRATIO =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NKC  CHEMNAME = NICKEL CARBONYL      PATHCODE = A  X  Y
MOLECW = 170.7  NBP = 316.0  NFP = 248.0  CRITTEMP=
DENSITY = 1320.  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1613.  (E) BRHO = -1.000  (E
CRHO = 0.0000E+00(E) LDUPRND= 298.1  LDWRBND= 278.1  LQVISPNT= 0.6500E-03  LQVISTMP= 291.1
AVIS = -10.33  (E) BVIS = 870.0  (E) LVUPRND= 298.1  LVLWRBND= 278.1  LQTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCLOBND=
LQHTCPPT= 1214.  LQHTCPTM= 300.1  AHC = 1026.  BHC = 0.6280  LHCUPBND= 303.1
LHCLOBND= 273.1  SURFTENS= 0.1590E-01  SFTNTEMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT= 0.1800E-01  SOLUBTMP= 282.9  A =  B =  AVP = 9.708
BVP = 1486.  CVP = -0.1500  VFUPRND= 323.1  VPLWRBND= 273.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.1700E+06  HTCOASTN= -0.6900E+07  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 2.000  UPFLMLIM=
TOXINHAL= 0.1000E-02  INHALCNC= 0.4000E-01  INHALTME= 300.0  LOTOXLIM=
LAFETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =
BURNRATE= 0.4509E-04
UPTOXLIM=
FLMETEMP=

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

NKS	CHEMNAME = NICKEL SULFATE		PATHCODE = SS	
MOLECW	= 154.8	NBP	=	CRITTEMP=
DENSITY	= 3680.	DENSTEMP	= 293.2	ARHO =
CRHO	=	LDUPRBND	=	LQVISTMP=
AVIS	=	BVIS	=	LQTHRCND=
LTHCNTMP	=	ACON	=	LTCLOBND=
LQHTCPPT	=	LQHTCPTM	=	LHCUPBND=
LHCLOBND	=	SURFTENS	=	INTFTTMP=
SOLUBPNT	=	SOLUBTMP	=	AVP =
BVP	=	CVP	=	AVCP =
BVCP	=	CVCP	=	VHCLOBND=
HTFUSION	=	LHTVAPOR	=	HTSOLUTN=
HTREACTN	=	HTPOLYMR	=	BURNRATE=
TOXINHAL	= 0.1450	INHALCNC	=	UPTOXLIM=
LAFETOX	=	ABFLMTMP	=	FLMETEMP=
MOLFRAC	=	MOLRATIO	=	
		A	= -119.9	B
		VFUPRBND	=	VPLWRBND=
		DVCP	=	VHCUPBND=
		HTCOMSTN	=	HTDECOMP=
		LOFLMLIM	=	UPFLMLIM=
		INHALTIME	=	LOTOXLIM=
				AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NMT  CHEMNAME = NITROMETHANE
      PATHCODE = A P Q R S
      MOLECWT = 61.04 NBP = 374.4 NFP = 244.0 CRITTEMP= 588.0 CRITPRES= 0.6311E+07
      DENSITY = 1139. DENSTEMP= 293.2 SHPSTATE=L ARHO = 1520. BRHO = -1.300
      CRHO = 0.0000E+00 LDUPRBD= 353.2 LDWRBND= 273.2 LQVISPT= LQVISTMP=
      AVIS = BVIS = LVUPRBD= LVLWRBND= LQTHRCND=
      LTHCNTMP= ACON = BCON = LTCUPBND= LTCLOBND=
      LQHTCPPT= 1771. LQHTCPTM= 293.2 AHC = 1280. EHC = 1.675 LHCUPBND= 333.2
      LHCLOBND= 248.2 SURFTENS= 0.3700E-01 SFTNTEMP= 293.2 INTFTENS= INTFTTMP=
      SOLUBPNT= 10.00 SOLUBTMP= 293.2 A = B = AVP = 9.169
      BVP = 1291. CVP = -64.16 VUPRBD= 373.2 VPLWRBND= 288.2 AVCP = 0.1239E+05
      BVCP = 168.3 CVCP = -0.5862E-01 DVCP = 0.0000E+00 VHCUPBND= 600.0 VHCLOBND= 250.0
      HTFUSION= LHTVAPOR= 0.5610E+06 HTCOMBTN= -0.1054E+08 HTSOLUTN= -0.2000E+05(E
      HTREACTN= HTPOLYMR= LOFLMLIM= 7.300 HTDECOMP=
      TOXINHAL= 100.0 INHALCNC= INHALTME= UPFLMLIM= BURNRATE= 0.1833E-04
      LAETOX = ABFLMTMP= MOLRATIO= LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
      MOLFRAC = AIRFUEL = FLMETEMP=
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NNE    CHEMNAME = 1-NONENE
      MOLECW = 126.2      NBP = 420.0      NFP = 191.5      CRITTEMP = 601.0      CRITPRES = 0.2482E+07
      DENSITY = 733.0      DENSTEMP = 293.2      SHPSTATE=L      ARHO = 960.8      BRHO = -0.7900
      CRHO = 0.0000E+00      LDUPRBND = 373.2      LDLWRBND = 273.2      LQVISPT = 0.6200E-03      LQVISTMP = 293.2
      AVIS = -11.03      BVIS = 1066.      LVUPRBND = 373.2      LVLWRBND = 273.2      LQTHRCND =
      LTHCNTMP =          ACON =          BCON =          LTCLOBND =
      LQHTCPPT = 2114.      LQHTCPTM = 288.2      AHC = 907.9      BHC = 4.187      LHCUPBND = 303.2
      LHCLOBND = 273.2      SURFTENS = 0.2256E-01      SFTNTMP = 298.2      INTFTENS =          INTFTTMP =
      SOLUBPNT =          SOLUBTMP =          A =          B =          AVP = 9.079
      BVP = 1435.      CVP = -67.66      VFUPRBND = 373.2      VPLWRBND = 293.2      AVCP = 0.1679E+05
      BVCP = 688.9      CVCP = -0.2407      DVCP = 0.0000E+00      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION =          LHTVAPOR = 0.2881E+06      HTCONJTN = -0.4415E+08      HTDECCMP =          HTSOLUTN =
      HTREACTN =          HTPOLYMR =          LOFLWLIM = 0.8000      UPFLWLIM =          BURNRATE = 0.1000E-03
      TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLIM =          UPTOXLIM =
      LATETOX =          18FLMTMP =          MOLRATIO =          AIRFUEL =          FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NNN  CHEMNAME = NONANOL
      MOLECW = 144.3  NBP = 486.0  NFP = 268.0  CRITTEMP = 677.0  CRITPRES = 0.2400E+07
      DENSITY = 827.0  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1061.  BRHO = -0.8000
      CRHO = 0.0000E+00  LDUPRND = 323.2  LDWFSND = 273.2  LQVISPNT = 0.5800E-02(E)  LQVISTMP = 293.0 (E)
      AVIS = -18.80 (E)  BVIS = 4000. (E)  LVUPRND = 303.0 (E)  LVLWRND = 283.0 (E)  LQTHRCND = 0.1512
      LTHCNTMP = 293.2  ACON = 0.1992  BCON = -0.1628E-03  LTCUPBND = 363.2  LTCLOBND = 288.2
      LQHTCPPT = 2000. (E)  LQHTCPTM = 293.0 (E)  AHC = 2000. (E)  SHC = 0.0000E+00(E)  LHCUPBND = 303.0 (E)
      LHCLOBND = 273.0 (E)  SURFTENS = 0.2500E-01(E)  SFTNTMP = 293.0 (E)  INTFTENS = 0.3000E-01(E)  INTFTTMP = 293.0 (E)
      SOLUBPNT = 273.0 (E)  SURFTENS = 0.2500E-01(E)  SFTNTMP = 293.0 (E)  INTFTENS = 0.3000E-01(E)  INTFTTMP = 293.0 (E)
      BVP = 1790.  CVP = -135.2  VFUPRND = 523.2  VPLWRND = 373.2  AVCP = 0.2788E+05
      BVCP = 727.2  CVCP = -0.2261  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION = 0.3035E+06  HTVAPOR = 0.3035E+06  HTCONSTN = -0.4090E+08(E)  HTDECOMP = 6.100  HTSOLUTN = 0.5000E-02
      HTREACTN = 0.3035E+06  HTPOLYMR = 0.8000  UPFLMLIM = 6.100  BURNRATE = 0.5000E-02
      TOXINHAL = 0.3035E+06  INHALCNC = 0.8000  INHALTME = 0.5000E-03  UPTOXLIM = 0.5000E-02
      LATETOX = 0.3035E+06  ABFLMTMP = 0.8000  LOTOXLIM = 0.5000E-03  FLMETEMP = 0.5000E-02
      MOLFRAC = 0.3035E+06  MOLRATIO = 0.8000  AIRFUEL = 0.5000E-03

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NNP

CHEMNAME = NONYLPHENOL

PATHCODE = A T U

MOLEWT = 220.4	NBP = 577.0	NFP =	CRITEMP = 743.0	CRITPRES =
DENSITY = 948.0	DENSTEMP = 298.2	SHPSTATE=L	ARHO = 1160.	BRHO = -0.7100
CRHO = 0.0000E+00	LDUPRBND = 353.2	LDLWRBND = 298.2	LQVISPT = 1.690	LQVISTMP = 298.2
AVIS = -18.30	BVIS = 5610.	LVUPRBND = 353.2	LVLWRBND = 298.2	LQTHRCND = 0.1500 (E)
LTHCNTMP = 298.0 (E)	ACON = 0.1500 (E)	BCON = 0.0000E+00(E)	LTCUPBND = 303.0 (E)	LTCLOBND = 283.0 (E)
LQHTCPPT = 2500. (E)	LQHTCPTM = 298.0 (E)	AHC = 2500. (E)	BHC = 0.0000E+00(E)	LHCUPBND = 303.0 (E)
LHCLOBND = 293.0 (E)	SURFTENS = 0.3000E-01(E)	SFTNTMP = 293.0 (E)	INTFTENS = 0.3000E-01(E)	INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 9.351
BVP = 1997.	CVP = -117.2	VFUPRBND = 626.2	VPLWRBND = 438.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN = -0.4070E+08(E)	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM = 1.000 (E)	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NNT      CHEMNAME = NICKEL NITRATE      PATHCODE = SS
MOLECWT = 290.8      NBP =
DENSITY = 2050.      DENSTEMP= 293.1      SHPSTATE=S
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 94.10      SOLUBTMP= 293.1      A = -125.7
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL= 0.7700E-01      INHALCNC=
LATETOX =
MOLFRAC =

CRITPRES=
BRHO =
LQVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN= 0.1100E+06
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

CRITTEMP=
ARHO =
LQVISPT=
LVLRBND=
LTCUPBND=
BHC =
INTFTENS=
B = 0.7500
VPLWRBND=
VHCUPBI:D=
HTDECONP=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =
MOLRATIO=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NON  CHEMNAME = NONENE                                     PATHCODE = A T U
MOLECWT = 126.2      NBP = 408.0      (E) NFP =      CRITTEMP=
DENSITY = 739.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO =      CRITPRES=
CRHO = 0.0000E+00(E) LDUPRBND= 303.0      (E) LDLWRSND= 273.0      (E) LQVISPNT= 0.5800E-03(E) LQVISTMP= 298.0      (E)
AVIS = -11.03      (E) BVIS = 1066.      (E) LVUPRSND= 303.0      (E) LVLWRBND= 273.0      (E) LQTHRCND= 0.1500      (E)
LTHCNTMP= 298.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0      (E) LTCLOBND= 278.0      (E)
LQHTCPT= 2110.      (E) LQHTCPTM= 288.0      (E) AHC = 908.0      (E) BHC =      LTCUPBND= 303.0      (E) LHCUPBND= 303.0      (E)
LHCLOBND= 273.0      (E) SURFTENS= 0.2200E-01(E) SFTNTMP= 298.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 298.0      (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.079      (E)
BVP = 1435.      (E) CVP = -67.50      (E) VFUPR3ND= 373.0      (E) VPLWRBND= 293.0      (E) AVCP = 0.1679E+05(E)
BVCP = 689.0      (E) CVCP = -0.2407      (E) DVCP = 0.0000E+00(E) VHCUPBND= 600.0      (E) VHCLOBND= 250.0      (E)
HTFUSION=      LHTVAPOR= 0.2880E+06(E) HTCOMSTN= -0.4410E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.7000      UPFLMLIM= 3.900      BURNRATE= 0.1000E-03
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NPH CHEMNAME = 4-NITROPHENOL

PATHCODE = II SS

MOLEWT = 139.1	NBP =	NFP = 386.0	CRITTEMP=	CRITPRES=
DENSITY = 1480.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 1.600	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.2060E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NPP  CHEMNAME = 2-NITROPROPANE          PATHCODE = A  P  Q  T  U  X  Y
MOLEWT = 89.09      NBP = 393.5      NFP = 182.0      CRITTEMP=
DENSITY = 990.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1312.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPRBN= 303.1      LDWRBN= 288.1      LQVISPNT= 0.7700E-03      LQVISTMP= 293.1
AVIS = -10.94      BVIS = 1104.      LVUPRBN= 308.1      LVLWRBN= 283.1      LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBN=          LTCLOBND=
LQHTCPT=          LQHTCPTM=          AHC =          BHC =          LHCUPBN=
LHCLBN=          SURFTENS= 0.3000E-01      SFTNTEMP= 293.1      INTFTENS=          INTFTTMP=
SOLUBPNT= 1.700      SOLU3TMP= 293.1      A = -1.818      B = 0.1200E-01      AVP = 9.936
BVP = 1940.      CVP = -0.1500      VFUPRBN= 393.1      VPLWRBN= 288.1      AVCP = -5091. (E)
BVCP = 433.0      (E) CVCP = -0.2676      (E) DVCP = 0.6280E-04(E)      VHCUPBN= 550.0      VHCLOBND= 250.0
HTFUSICN=          LHTVAPOR= 0.4100E+06      HTCOMSTN= -0.2240E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIN= 2.600      UPFLMLIN=          BURNRATE=
TOXINHAL= 25.00      INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NSS  CHEMNAME = NAPHTHA STODDARD SOLVENT      PATHCODE = A  T  U
MOLEWT =          NBP = 433.0 (E) NFP =          CRITTEMP=
DENSITY = 780.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 780.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBND= 313.0 (E) LDLWRBND= 283.0 (E) LQVISPT= 0.5800E-02(E) LQVISTMP= 293.0 (E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRBND= 313.0 (E) LVLWRBND= 283.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.641 (E)
BVP = 2086. (E) CVP = 0.0000E+00(E) VFUPRBND= 450.0 (E) VPLWRBND= 300.0 (E) AVCP = 0.1990E+05(E)
BVCP = 1073. (E) CVCP = -0.6010 (E) DVCP = 0.0000E+00(E) VHCUPBND= 300.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=          LHTVAPOR= 0.2350E+06(E) HTCOMBSTN= -0.4240E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 0.8000          UPFLMLIM= 5.000          BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 1800.          LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NSV  CHEMNAME = NAPHTHA SOLVENT      PATHCODE = A  T  U
MOLECW =      NBP = 403.0 (E) NFP =      CRITTEMP=
DENSITY = 850.0 (E) DENSTEMP= 293.2 SHPSTATE=L  ARHO =
CRHO = 0.0000E+00(E) LDUPRND= 313.0 (E) LDLWRND= 283.0 (E) LQVISPNT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
AVIS = -18.80 (E) BVIS = 4000. (E) LVUPRND= 313.0 (E) LVLWRBND= 283.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0 (E) LTCLOBND= 283.0 (E)
LOHTCPPT= 2000. (E) LOHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.641 (E)
BVP = 2086. (E) CVP = 0.0000E+00(E) VFUPRND= 450.0 (E) VPLWRBND= 300.0 (E) AVCP = 0.1990E+05(E)
BVCP = 1073. (E) CVCP = 0.6010 (E) DVCP = 0.0000E+00(E) VHCUPBND= 500.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=      LHTVAPOR= 0.2350E+06(E) HTCOMSTN= -0.4240E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.8000      UPFLMLIM=      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTA CHEMNAME = 2-NITROANILINE

PATHCODE = II

MOLEWT = 138.1	NBP = 557.0	NFP = 344.0	CRITTEMP =	CRITPRES =
DENSITY = 1440.	DENSTEMP = 293.1	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 0.1200	SOLUBTMP = 298.1	A = -1.310 (E) B =	0.4800E-02(E) AVP =	
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBNTN = -0.2320E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NTB  CHEMNAME = NITROBENZENE
      MOLECWT = 123.1      NBP = 484.1      CRITPRES= 0.4824E+07
      DENSITY = 1204.      DENSTEMP= 293.2      CRITTEMP= 720.0      BRHO = -0.9900
      CRHO = 0.0000E+00      LDUPRND= 353.2      LDWRBND= 283.2      LOVISPT= 0.2013E-02      LOVISTMP= 293.2
      AVIS = -11.33      BVIS = 1500.      LVUPRND= 343.2      LVLWRBND= 283.2      LQTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
      LQHTCPT= 1507.      (E) LQHTCPTM= 293.0      (E) AHC = 1507.      (E) BHC =          (E) LHCUPBND= 298.0      (E)
      LHCLOBND= 283.0      (E) SURFTENS= 0.4390E-01      SFTNTMP= 293.2      INTFTENS=          INTFTTMP= 293.2
      SOLUBPNT= 0.1900      SOLUBTMP= 293.1      A =          B =          AVP =          10.82
      BVP = 2768.      CVP = 0.4004E-01      VFUPRND= 423.2      VPLWRBND=          VAVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
      HTFUSION=          LHTVAPOR= 0.3559E+06      HTCOMSTN= -0.2425E+08      HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.800      UPFLMLIM=          BURNRATE= 0.4833E-04
      TOXINHAL= 1.000      INHALCNC= 10.00      INHALTME= 1800.      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NTC  CHEMNAME = NITROSYL CHLORIDE          PATHCODE = A  C  O
MOLEWT = 65.46      NBP = 267.4      CRITEMP= 441.0      CRITPRES= 0.9100E+07
DENSITY = 1360.     DENSTEMP= 267.5      ARHO = 2006.     BRHO = -2.400
CRHO = 0.0000E+00   LDUPRBN= 273.2      LQVISPNT=         LQVISTMP=
AVIS =              BVIS =              LVLWRBND=         LQTHRCND=
LTHCNTMP=          ACON =              LTCUPBND=         LTCLOBND=
LQHTCPPT= 700.0 (E) LQHTCPTM= 263.0 (E) BHC = 0.0000E+00(E) LHCUPBND= 263.0 (E)
LHCLOBND= 253.0 (E) SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =              B =              AVP = 9.972
BVP = 1328.         CVP = 0.4004E-01   VFUPRBN= 293.2      VPLWRBND= 233.2      AVCP = 0.3345E+05
BVCP = 46.47        CVCP = -0.2931E-01   DVCP = 0.0000E+00   VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.9211E+05 LHTVAPOR= 0.3810E+06   HTCOMBTN=          HTSOLUTN=
HTREACTN= -0.7997E+06 HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL= 1.000     INHALCNC=          INHALTME=          LOTOXLIM=
LAFETOX =           ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NTE  CHEMNAME = NITROETHANE
      PATHCODE = A P Q T U X Y
MOLECW = 75.07 NBP = 387.0 NFP = 183.0 CRITTEMP= CRITPRES=
DENSITY = 1050. DENSTEMP= 293.1 SHPSTATE=L ARHO = 1343. BRHO = -1.000
CRHO = 0.0000E+00 LDUPRND= 303.1 LDWRBND= 273.1 LQVISPT= 0.6680E-03 LQVISTMP= 298.1
AVIS = -10.72 BVIS = 1016. LVUPRND= 383.1 LVLWRBND= 283.1 LQTHRCND= 0.1663
LTHCNTMP= 311.1 ACON = 0.3227 BCON = -0.5001E-03 LTCUPBND= 348.1 LTCLOBND= 305.1
LQHTCPPT= LQHTCPTM= AHC = BHC = LHCUPBND=
LHCLOBND= SURFTENS= 0.3130E-01 SFTNTMP= 293.1 INTFTENS= INTFTTMP=
SOLUBPNT= 4.500 SOLUBTMP= 293.1 A = B = AVP = 10.31
BVP = 2054. CVP = -0.1500 VFUPRND= 387.1 VPLWRBND= 283.1 AVCP = 8763. (E)
BVCP = 289.7 (E) CVCP = -0.1641 (E) DVCP = 0.3551E-04(E) VHCUPBND= 550.0 VHCLOBND= 250.0
HTFUSION= LHTVAPOR= 0.4900E+06 HTCOMBTN= -0.1790E+08 HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= 3.400 UPFLMLIM= BURNRATE=
TOXINHAL= 100.0 INHALCNC= INHALTME= LOTOXLIM= 0.5000E-03 UPTOXLIM= 0.5000E-02
LAETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NTI    CHEMNAME = NAPHTHENIC ACIDS          PATHCODE = A   T   U
MOLECW = 225.0 (E) NBP = 460.5 (E) NFP =          CRITENP=
DENSITY = 960.0 DENSTEMP= 293.1 SHPSTATE=L          ARHO =
CRHO =          LDUPRBND=          LDWPSND=          LOVISPT=
AVIS =          BVIS =          LVUPRBND=          LVLWRB.D=
LTHCNTMP=          ACON =          LTCUPBND=          LTCLOBND=
LOHTCPPI=          LOHTCPTM=          AHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =
BVP =          CVP =          VFUPRBND=          VPLWRB.D=
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCONBND=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.000  UPFLMLIM=
TOXINHAL= 1.000 (E) INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTL CHEMNAME = NITRALIN PATHCODE = II

MOLEWT = 345.2	NBP = 498.0	(E) NFP = 424.0	CRITPRES=
DENSITY = 1000.	(E) DENSTEMP= 293.1	SHSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTTMP=
SOLUBPNT= 0.6000E-04	SOLUBTMP= 298.1	A =	AVP =
BVP =	CVP =	VFUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBNTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

SYSTEM OF UNITS

NTM CHEMNAME = NAPHTHALENE, MOLTEN

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NTO    CHEMNAME = NITROUS OXIDE          PATHCODE = A  C  I  J
MOLEWT = 44.00      NBP = 183.7      NFP = 182.4      CRITTEMP= 309.7      CRITPRES= 0.7280E+07
DENSITY = 1266.     DENSTEMP= 184.1  SHPSTATE=L      ARHO = 1984.     BRHO = -3.900
CRHO = 0.0000E+00  LDUPRND= 193.1    LDLWRND= 183.1  LQVISPT=      LQVISTMP=
AVIS =             BVIS =             LVUPRND=        LQTHRCND=
LTHCNTMP=          ACON =             BCON =            LTCUPBND=
LQHTCPPT=          LQHTCPTM=          AHC =            EHC =            LHCUPBND=
LHCLOBND=          SURFTENS= 0.1010E-01  SFTNTMP= 248.1  INTFTMP=
SOLUBPNT= 0.2500   SOLUBTMP= 273.1    A =            B =            AVP = 9.551
BVP = 835.0        CVP = -0.1500      VFUPRND= 233.1  VPLWRND= 184.1  AVCP = 0.3894E+05
BVCP = 0.0000E+00  CVCP = 0.0000E+00  DVCP = 0.0000E+00  VHCUPBND= 400.0  VHCLOBND= 300.0
HTFUSION=          LHTVAPOR= 0.3760E+06  HTCOMBNTN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=      LOTOXLIM= 0.1500E-01(E)  UPTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =
MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTP	CHEMNAME = 2-NITROPHENOL	PATHCODE = II	
MOLECWT =	139.1	NBP =	487.0
DENSITY =	1490.	DENSTEMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.2100	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	313.0
		SHPSTATE =	S
		LDLWRBND =	
		LVUPRND =	
		BCON =	
		AHC =	
		SFTNTMP =	
		A =	-1.549
		B =	0.6000E-02
		VFLWRBND =	
		VHCUPBND =	
		HTDECOMP =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPTI =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

NTX	CHEMNAME = NITRIC OXIDE		PATHCODE = A C	
MOLECW	=	30.00	NBP	= 121.5
DENSITY	=		DENSTMP	
CRHO	=		LDUPRND	
AVIS	=		BVIS	=
LTHCNTMP	=		ACON	=
LQHTCPPT	=		LQHTCPTM	=
LHCLOBND	=		SURFTENS	=
SOLUBPNT	=		SOLUBTMP	=
BVP	=		CVP	=
BVCP	=	0.0000E+00	CVCP	= 0.0000E+00
HTFUSION	=		LHTVAPOR	=
HTREACTN	=		HTPOLYMR	=
TOXINHAL	=	25.00	INHALCNC	= 200.0 (E) INHALTIME = 300.0
LATETOX	=		ABFLMTMP	=
MOLFRAC	=			
			CRITPRES	= 0.6500E+07
			BRHO	=
			LQVISTMP	=
			LQTHRCND	=
			LTCCLBND	=
			LHCUPBND	=
			INTFTTMP	=
			AVP	=
			AVCP	= 0.2931E+05
			VHCLOBND	= 250.0
			HTSOLUTN	= -0.5980E+06
			BURNRATE	=
			UPTOXLIM	=
			FLMETEMP	=
			CRITTEMP	= 180.0
			ARHO	=
			LQVISPT	=
			LVLWRBND	=
			LTCUPBND	=
			BHC	=
			INTFTENS	=
			B	=
			VPLWRBND	=
			VHCUPBND	= 400.0
			HTDECOMP	=
			UPFLMLIM	=
			LOTOXLIM	=
			AIRFUEL	=
			HTCOVSTN	=
			LOFLMLIM	=
			MOLRATIO	=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
NVM   CHEMNAME = NAPHTHA VM + P (75( NAPHTHA )      PATHCODE = A   T   U   V   W
MOLECW = 750.0      NBP = 366.5      (E) NFP =      CRITTEMP=
DENSITY = 750.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 780.0      (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPRBN= 313.0      (E) LDLPBND= 283.0      (E) LQVISPNT= 0.5800E-02(E) LQVISTMP= 293.0      (E
AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRBN= 313.0      (E) LVLWRBND= 283.0      (E) LQTHRCND= 0.1500      (E
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 313.0      (E) LTCLOBND= 283.0      (E
LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0      (E
LHCLOBND= 283.0      (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.4500E-01(E) INTFTTMP= 293.0      (E
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.641      (E
BVP = 2086.      (E) CVP = 0.0000E+00(E) VFUPRBN= 450.0      (E) VPLWRBN= 300.0      (E) AVCP = 0.1990E+05(E
BVCP = 1073.      (E) CVCP = -0.6010      (E) DVCP = 0.0000E+00(E) VHCUPBND= 500.0      (E) VHCLOBND= 300.0      (E
HTFUSION=      LHTVAPOR= 0.2350E+06(E) HTCOMBTN= -0.4240E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.9000      UPFLMLIM= 6.700      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

NXX  CHEMNAME = NITROGEN, LIQUEFIED      PATHCODE = A  C  D  F  G
MOLEWT = 28.00      NBP = 77.60      CRITTEMP= 126.2      CRITPRES= 0.3400E+07
DENSITY = 807.0      DENSTEMP= 77.65      SHPSSTATE=L      BRHO = -6.000
CRHO = 0.0000E+00      LDUPRND= 83.15      LDLWRBND= 73.15      LQVISPNT= 0.1580E-03      LQVISTMP= 77.15
AVIS = -11.19      BVIS = 188.0      LVUPRND= 113.1      LVLWRBND= 73.15      LQTHRCND= 0.1396
LTHCNTMP= 77.15      ACON = 0.2383      BCON = -0.1279E-02      LTCUPBND= 93.15      LTCLOBND= 73.15
LQHTCPPT= 1005.      LQHTCPTM= 73.15      AHC = 1005.      BHC = 0.0000E+00      LHCUPBND= 83.15
LHCLOBND= 73.15      SURFTENS= 0.8300E-01      SFTNTMP= 80.15      INTFTENS= 9.194
SOLUBPNT= 325.0      CVCP = -0.1500      VFUPRND= 93.15      VPLWRBND= 63.15      AVCP = 0.2931E+05
BVP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 500.0      VHCLOBND= 250.0
HTFUSION= 0.2200E+06      LHTVAPOR= 0.2200E+06      HTCOMSTN= 0.2200E+06      HTSOLUTN= 0.2200E+06
HTREACTN= 0.2200E+06      HTPOLYMR= 0.2200E+06      LOFLMLIM= 0.2200E+06      UPFLMLIM= 0.2200E+06
TOXINHAL= 0.2200E+06      INHALCNC= 0.2200E+06      INHALTME= 0.2200E+06      LOTOXLIM= 0.2200E+06
LAFETOX = 0.2200E+06      ABFLMTMP= 0.2200E+06      MOLRATIO= 0.2200E+06      AIRFUEL = 0.2200E+06
MOLFRAC = 0.2200E+06

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OAC	CHEMNAME = OLEIC ACID, SODIUM SALT	PATHCODE = SS	
MOLEWT =	304.0 (E) NBP =	NFP = 506.5 (E) CRITTEMP=	CRITPRES=
DENSITY =	1100. (E) DENSTEMP= 293.1	SHPSTATE=S	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LOVISTMP=
AVIS =	BVIS =	LVUPRND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTMP=
SOLUBPNT= 10.00	SOLUBTMP= 293.1	A =	AVP =
BVP =	CVP =	VFUPRND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=
LALETEOX =	ABFLWTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

[illegible][illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OAP		CHEMNAME = OLEIC ACID, POTASSIUM SALT		PATHCODE = A P	
MOLEWT =	320.0	NBP =		NFP =	510.5 (E) CRITTEMP=
DENSITY =	1100.	(E) DENSTEMP=	293.1	SHSTATE=L	ARHO =
CRHO =		LDUPRBNB=		LDLWRBNB=	LQVISTMP=
AVIS =		BVIS =		LVUPRBNB=	LQTHRCND=
LTHCNTMP=		ACON =		BCON =	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=	INTFTTMP=
SOLUBPNT=	25.00	SOLUBTMP=	293.1	A =	AVP =
BVP =		CVP =		VFUPRBNB=	AVCP =
BVCP =		CVCP =		DVCP =	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMBTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=	UPTOXLIM=
LARETOX =		ABFLMTMP=		MOLRATIO=	FLMETEMP=
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OAS  CHEMNAME = OIL: ABSORPTION          PATHCODE = A  T  U
MOLECW =      = 533.0 (E) NFP      =      CRITTEMP=
DENSITY =      =      SHPSTATE=      ARHO = 850.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRND= 303.0 (E) LDWRBND= 283.0 (E) LQVISPNT= 0.7650E-02(E) LQVISTMP= 311.2
AVIS =      =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      =      SOLUBTMP=      A =      B =      AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP =      =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      =      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      =      LHTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6667E-04
TOXINHAL=      =      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OCA CHEMNAME = OIL: CASTOR

PATHCODE = A T U

MOLECWT =	NBP =	538.0	NFP =	261.0	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	298.2	SHPSSTATE=L		ARHO =	(E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LDUPRBND=	313.0	(E)	LDLWRSND=	283.0 (E) LOVISIMP= 293.0 (E)
AVIS =	-24.95 (E)	BVIS =	7450.	(E)	LVUPRSND=	333.0 (E) LQTHRCND= 0.1310 (E)
LTHCNTMP=	293.0 (E)	ACON =	0.1470	(E)	BCON =	-0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT=	2000. (E)	LQHTCPTM=	293.0	(E)	AHC =	2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND=	273.0 (E)	SURFTENS=	0.2500E-01(E)	SFTNTMP=	293.0 (E)	INTFTENS= 0.5000E-01(E) INTFTIMP= 293.0 (E)
SOLUBPNT=		SOLUBTMP=	A =		B =	AVP = 9.510 (E)
BVP =	2076. (E)	CVP =	0.0000E+00(E)	VFUPRSND=	323.0 (E)	VPLWRSND= 273.0 (E) AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND= VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOM/STN=	-0.3710E+08(E)	HTDECOMP= HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM= BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
LAGETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL = FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OCF CHEMNAME = OIL: CLARIFIED PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	SHPSTATE=	ARHO =	(E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E)	LDUPRBN= 303.0 (E)	LDLWRBN= 283.0 (E)	LOVISPT= 0.5800E-02(E)	LOVISTMP= 293.0 (E
AVIS = -18.80 (E)	BVIS = 4000. (E)	LVPURBN= 303.0 (E)	LVLWRBN= 283.0 (E)	LOTHRCND= 0.1310 (E
LTHCNTMP= 293.0 (E)	ACON = 0.1470 (E)	BCON = -0.5200E-04(E)	LTCUPBN= 323.0 (E)	LTCLOBND= 273.0 (E
LQHTCPPT= 1970. (E)	LQHTCPTM= 293.0 (E)	AHC = 855.0 (E)	BHC = 3.780 (E)	LHQUPBN= 313.0 (E
LHCLOBND= 283.0 (E)	SURFTENS= 0.2500E-01(E)	SFTNTEMP= 293.0 (E)	INTFTENS= 0.5000E-01(E)	INTFTTMP= 293.0 (E
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.515 (E
BVP = 2076. (E)	CVP = 0.0000E+00(E)	VFUPRBN= 373.0 (E)	VPLWRBN= 293.0 (E)	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBNTN= -0.4200E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE= 0.6667E-04
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OCR  CHEMNAME = OILS MISCELLANEOUS: CROTON      PATHCODE = A  T  U
MOLEWT =          NBP =          DENSTMP= 293.1  NFP = 260.0  (E) CRITTEMP=
DENSITY = 940.0      CRHO = 0.0000E+00(E) LDUPREND= 303.1  SHPSTATE=L  ARHO = 1179.  (E) BRHO = -0.8000  (E)
CRHO = 0.0000E+00(E) LDUPREND= 303.1  LDUPR3ND= 273.1  LVUPR3ND=  LVUPR3ND=  LVUPR3ND=  LVUPR3ND=  LVUPR3ND=  LVUPR3ND=
AVIS =          BVIS =          ACON = 0.1485  (E) BCON = -0.5815E-04(E) LTCUPBND= 323.1  LTCLOBND= 273.1  LTCLOBND= 273.1  LTCLOBND= 273.1  LTCLOBND= 273.1
LTHCNTMP= 293.1  LQHTCPPT= 2010.  (E) LQHTCPTM= 293.1  AHC = 2010.  (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1  LHCUPBND= 303.1  LHCUPBND= 303.1  LHCUPBND= 303.1
LHCLOBND= 273.1  SURFTENS= 0.2500E-01(E) SFNTTEMP= 293.1  INTFTENS= 0.5000E-01(E) INTFTTMP= 293.1  INTFTTMP= 293.1  INTFTTMP= 293.1  INTFTTMP= 293.1
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          AVCP =          VHCLOBND=          HTSOLUTN=
BVP =          CVP =          VUPR3ND=          VPLWRBND=          VHCUPBND=          HTSOLUTN=          BURNRATE= 0.6680E-04
BVCP =          CVCP =          LHTVAPOR=          LHTPOLYMR=          LHTPOLYMR=          LHTPOLYMR=          UPTOXLIM= 0.5000E-04(E)
HTFUSION=          HTPOLYMR=          INHALCNC=          ABFLMTMP=          AIRFUEL =          FLMETEMP=
HTREACTN=          TOXINHAL=          LATETOX =          MOLFRAC =

```

OCS	CHEMNAME = OIL: COTTONSEED	PATHCODE = A T U					
MOLECW	=	NBP	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY	=	920.0	DENSTEMP=	293.2	SHPSTATE=L	ARHO	=
CRHO	=	0.0000E+00(E)	LDUPRBND=	313.0	(E) LDLWRBND=	283.0	(E) LQVISPNT=
AVIS	=	-24.95	(E) BVIS	=	7450.	(E) LVUPRBND=	333.0
LTHCNTMP=	293.0	(E) ACON	=	0.1470	(E) BCOR	=	-0.5200E-04(E)
LQHTCPT=	2000.	(E) LQHTCPTM=	293.0	(E) AHC	=	2000.	(E) BHC
LHCLOBND=	273.0	(E) SURTENS=	0.2500E-01(E)	SFTNTEMP=	293.0	(E) INTFTENS=	0.5000E-01(E)
SOLUBPNT=		SOLUBTMP=	A	=	B	=	AVP
BVP	=	2076.	(E) CVP	=	0.0000E+00(E)	VFUPRSND=	323.0
BVCP	=		CVCP	=	DVCP	=	VHCLOBND=
HTFUSION=		LHTVAPOR=	HTCOMBSTN=	-0.3710E+08(E)	HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=	LOFLMLIM=		UPFLMLIM=		BURNRATE=
TOXINHAL=		INHALLCNC=	INHALTIME=		LOTOXLIM=		UPTOXLIM=
LARETOX	=	ABFLWMTMP=	MOLRATIO=		AIRFUEL	=	FLMETEMP=
MOLFRAC	=						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OCT CHEMNAME = OIL: COAL TAR PATHCODE = A T U

MOLEWT =	NBP =	379.0	(E) NFP =	CRITTEMP =	CRITPRES =
DENSITY =	DENSTEMP =		SHPSTATE =	ARHO =	900.0 (E) BRHO = 0.0000E+00(E
CRHO =	0.0000E+00(E)	LDUPRND =	303.0	(E) LOVISPT =	0.5800E-02(E) LOVISTMP = 293.0 (E
AVIS =	-18.80 (E)	BVIS =	4000. (E)	LVUPRND =	283.0 (E) LQTHRCND = 0.1310 (E
LTHCNTMP =	293.0 (E)	ACON =	0.1470 (E)	BCON =	-0.5200E-04(E) LTCUPBND = 273.0 (E
LQHTCPPT =	1970. (E)	LQHTCPTM =	293.0 (E)	AHC =	855.0 (E) BHC = 313.0 (E
LHCLOBND =	283.0 (E)	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0 (E) INTFTENS = 0.5000E-01(E) INTFTTMP = 293.0 (E
SOLUBPNT =		SOLUBTMP =	A =	B =	AVP = 9.515 (E
BVP =	2076. (E)	CVP =	0.0000E+00(E)	VFUPRND =	373.0 (E) VPLWRBND = 293.0 (E) AVCP = 0.1250E+06(E
BVCP =	0.0000E+00(E)	CVCP =	0.0000E+00(E)	DVCP =	0.0000E+00(E) VHCUPBND = 400.0 (E) VHCLOBND = 300.0 (E
HTFUSION =		LHTVAPOR =	0.2500E+06(E)	HTCOMSTN =	-0.4200E+08(E) HTDECCNP =
HTREACTN =		HTPOLYMR =		LOFLMLIM =	1.300 UPFLMLIM = 8.000
TOXINHAL =		INHALCNC =		INHALTME =	LOTCLIM =
LAETOX =		ABFLMTMP =		MOLRATIO =	AIRFUEL =
MOLFRAC =					FLMETEMP =
					HTSOLUTN =
					BURNRATE = 0.6667E-04
					UPTOXLIM =
					FLMETEMP =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ODS   CHEMNAME = OIL: DIESEL
      PATHCODE = A   T   U
      MOLECW =      NBP =      561.0 (E) NFP =      239.0 (E) CRITTEMP =      CRITPRES =
      DENSITY = 876.0 DENSTEMP = 293.2 SHPSTATE=L      ARHO =      850.0 (E) BRHO =      0.0000E+00(E)
      CRHO = 0.0000E+00(E) LDUPREND = 303.0 (E) LDLWRBND = 283.0 (E) LQVISPT = 0.1195E-01(E) LQVISTMP = 311.2
      AVIS =      BVIS =      LVUPRBND =      LVLWRBND =      LQTHRCND = 0.1310 (E)
      LTHCNTMP = 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND = 323.0 (E) LTCLOBND = 273.0 (E)
      LQHTCPPT = 1970. (E) LQHTCPTM = 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND = 313.0 (E)
      LHCLOBND = 283.0 (E) SURFTENS = 0.2500E-01(E) SFTNTMP = 293.0 (E) INTFTENS = 0.5000E-01(E) INTFTMP = 293.0 (E)
      SOLUBPNT =      SOLUBTMP =      A =      B =      AVP =      9.515 (E)
      BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBND = 373.0 (E) VPLWRBND = 293.0 (E) AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND =      VHCLOBND =
      HTFUSION =      LHTVAPOR =      HTCOMSTN = -0.4200E+08(E) HTDECOMP =      HTSOLUTN =
      HTREACTN =      HTPOLYMR =      LOFLMLIM = 1.300      UPFLMLIM = 6.000      BURNRATE = 0.6667E-04
      TOXINHAL =      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-02      UPTOXLIM = 0.1500E-01
      LATETOX =      ABFLMTMP =      MOLRATIO =      AIRFUEL =      FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OET	CHEMNAME =	OCTYL EPOXY TALLATE	PATHCODE = A T U		
MOLECWT =	420.0	(E) NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	924.0	DENSTEMP=	298.1	SHSTATE=L	ARHO = 1222. (E) BRHO = -1.000 (E
CRHO =	0.0000E+00(E)	LDUPRBND=	303.1	LDLW3BND=	283.1
CRHO =	0.0000E+00(E)	LDUPRBND=	303.1	LDLW3BND=	283.1
AVIS =		BVIS =		LVUPRBND=	
LTHCNTMP=		ACON =		LVLWRBND=	
LQHTCPPT=		LQHTCPTM=		LTCUPBND=	
LHCLOBND=		SURFTENS=		BHC =	
SOLUBPNT=		SOLUBTMP=		INTFTENS=	
BVP =		CVP =		INTFTTMP=	
BVCP =		CVCP =		AVP =	
HTFUSION=		LHTVAPOR=		VPLWRBND=	
HTREACTN=		HTPOLYMR=		VHCUPBND=	
TOXINHAL=		INHALCNC=		HTSOLUTN=	
LATETOX =		ABFLMTMP=		UPFLMLIM=	
MOLFRAC =				LOTOXLIM=	
				UPTOXLIM=	
				AIRFUEL =	
				FLMEIEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OFR  CHEMNAME = FUEL OIL: 4          PATHCODE = A  T  U
MOLEWT =          NBP =          374.0 (E) NFP =          264.0 (E) CRITTEMP=          CRITPRES=
DENSITY =          900.0 (E) DENSTEMP=          293.2 SHPSTATE=L          ARHO =          900.0 (E) BRHO =          0.0000E+00(E)
CRHO =          0.0000E+00(E) LDUPRBN=          303.0 (E) LDLWRBN=          283.0 (E) LQVISPN=          0.1450E-01(E) LQVISTMP=          311.2
AVIS =          BVIS =          LVUPRBN=          LVLWRBN=          LQTHRCND=          0.1310 (E)
LTHCNTMP=          293.0 (E) ACON =          0.1470 (E) BCON =          -0.5200E-04(E) LTCUPBN=          323.0 (E) LTCLOBND=          273.0 (E)
LQHTCPPT=          1970. (E) LQHTCPTM=          293.0 (E) AHC =          855.0 (E) BHC =          3.780 (E) LHCUPBN=          313.0 (E)
LHCLOBND=          283.0 (E) SURFTENS=          0.2500E-01(E) SFTNTMP=          293.0 (E) INTFTENS=          0.5000E-01(E) INTFTTMP=          293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          9.515 (E)
BVP =          2076. (E) CVP =          0.0000E+00(E) VFUPRBN=          373.0 (E) VPLWRBN=          293.0 (E) AVCP =          VHCLOBND=
BVCP =          CVCP =          DVCP =          VHCUPBN=          HTSOLUTN=
HTFUSION=          LHTVAPOR=          HTCOMBTN=          -0.4200E+08(E) HTDECOMP=          BURNRATE=          0.6667E-04
HTREACTN=          HTPOLYMR=          LOFLMLIM=          1.000 UPFLMLIM=          5.000 UPTOXLIM=          0.1500E-01
TOXINHAL=          INHALCNC=          INHALTME=          MOLRATIO=          AIRFUEL =          FLMETEMP=
LAETOX =          ABFLMTMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OFV	CHEMNAME = FUEL OIL: 5	PATHCODE = A T U				
MOLECW =	NBP =	491.0	(E) NFP =	255.0	CRITTEMP =	CRITPRES =
DENSITY =	900.0 (E) DENTEMP =	293.2	SHPSTATE=L		ARHO =	900.0 (E) BRHO =
CRHO =	0.0000E+00(E) LDUPRBND =	303.0	(E) LDLWRBND =	283.0	(E) LQVISPNT =	0.4350E-01(E) LQVISTMP =
AVIS =	BVIS =		LVUPRBND =		LVLWRBND =	LQTHRCND =
LTHCNTMP =	293.0 (E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E)	LTCUPBND =	323.0 (E) LTCLOBND =
LQHTCPPT =	1970. (E) LQHTCPTM =	293.0	(E) AHC =	855.0	(E) BHC =	3.780 (E) LHCUPBND =
LHCLOBND =	283.0 (E) SURFTENS =	0.2500E-01(E)	SFTINTEMP =	293.0	(E) INTFTENS =	0.5000E-01(E) INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =		AVP =	9.515 (E)
BVP =	2076. (E) CVP =	0.0000E+00(E)	VFUPRBND =	373.0	(E) VPLWRBND =	293.0 (E) AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =		VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOMSTN =	-0.4200E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	1.000	UPFLMLIM =	5.000	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =		LOTOXLIM =	0.5000E-02	UPTOXLIM =
LAFETOX =	ABFLMTMP =	MOLRATIO =		AIRFUEL =		FLMETEMP =
MOLFRAC =						

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OLA  CHEMNAME = OLEIC ACID
      PATHCODE = A T U
      MOLEWT = 277.0 (E) NBP = 495.0 NFP = 287.0 CRITTEMP=
      DENSITY = 890.0 DENSTEMP= 298.1 SHPSTATE=L ARHO = 1099. CRITPRES=
      CRHO = 0.0000E+00 LDUPREND= 313.1 LDLPBND= 288.1 LVUPBND= 373.1 LTCUPBND= 303.1
      AVIS = -14.03 BVIS = 3160. BCON = AHC = -3163. INTFTENS= 0.1559E-01 INTFTTMP= 293.1
      LTHCNTMP= LOHTCPPT= 2114. LOHTCPTM= 293.1 SFTNTMP= 293.1 B = AVP =
      LHCLOBND= 288.1 SURFTENS= 0.3280E-01 SOLUBTMP= A = VFUPBND= VPLWRBND= VHCLOBND=
      SOLUBPNT= SOLUBTMP= CVP = CVCP = HTVAPOR= 0.2400E+06 HTDECOMP= HTSOLUTN=
      BVP = BVCN = HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
      HTFUSION= LHTVAPOR= 0.2400E+06 HTCONBNTN= HTDECOMP= HTSOLUTN=
      HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
      TOXINHAL= INHALCNC= INHALTME= LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
      LATETOX = ABFLMTMP= MOLRATIO= LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
      MOLFRAC = ABFLMTMP= MOLRATIO= LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OLB CHEMNAME = OIL: LUBRICATING

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 840.0 (E) DENSTEMP= 288.2	SHPSTATE=L	ARHO = 850.0 (E) BRHO =		0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBN= 303.0 (E) LDLWRBN= 283.0 (E) LQVISPNT=		0.2750 (E) LQVISTMP=		311.2
AVIS =	BVIS =	LVLWRBN=	LQTHRCND=	0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBN=		323.0 (E) LTCLOBND=		273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC =		3.780 (E) LHCUPBN=		313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP=		293.0 (E) INTFTENS=		293.0 (E)
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBN=		373.0 (E) VPLWRBN=		293.0 (E) AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.4200E+08(E) HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=	0.6667E-04
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM=	0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OLD   CHEMNAME = OILS EDIBIE: LARD
MOLWCWT =      NBP      =      DENSTEMP= 303.1      SHPSTATE=S      NFP      = 301.0      (E) CRITTEMP=
DENSITY = 860.0      CRHO      = 0.0000E+00(E) LDUPREND= 323.1      BVIS      =      ACON      = 0.1485      (E) BCON      = -0.5815E-04(E) LTCUPBND=
CRHO      = 0.0000E+00(E) LDUPREND= 323.1      BVIS      =      ACON      = 0.1485      (E) BCON      = -0.5815E-04(E) LTCUPBND=
AVIS      =      LTHCNTMP= 303.1      (E) LQHTCPTM= 303.1      AHC      = 2010.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 323.1
LQHTCPTM= 2010.      (E) LQHTCPTM= 303.1      AHC      = 2010.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 323.1
LHCLOBND= 303.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 303.1      INTFTENS= 0.5000E-01(E) INTFTMP= 303.1
SOLUBPNT=      SOLUBTMP=      A      =      A      =      B      =      AVP      =
BVP      =      CVP      =      VUPRBNND=      VPLWRBND=      VPCP      =      VPCP      =      VPCP      =
BVCP      =      CVCP      =      DVCV      =      DVCV      =      DVCV      =      DVCV      =      DVCV      =
HTFUSION=      LHTVAPOR=      HTCOI:STN= -0.3900E+08      HTDECOMP=      HTSOLUTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      LOFLMLIM=      UPFLMLIM=      UPFLMLIM=      UPFLMLIM=
TOXINHAL=      INHALCNC=      INHALTME=      INHALTME=      LOTOXLIM=      LOTOXLIM=      LOTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      MOLRATIO=      AIRFUEL =      AIRFUEL =
MOLFRAC =
CRITPRES=      (E) BRHO = 1099.      (E) BRHO = -0.8000      (E)
LQVISTMP=      LQVISTMP=      LQVISTMP=
LQTHRCND= 0.1314      (E)
LTCLOBND= 323.1      LTCLOBND= 303.1
LHCUPBND= 323.1
INTFTMP= 303.1
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE= 0.6680E-04
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OLM  CHENNAME = OLEUM
MOLECW =          NBP =          CRITPRES=
DENSITY = 1910. (E) DENSTMP= 288.2 SHPSTATE=L CRITTEMP=
CRHO =          LDUPRBND=          ARHO =
AVIS =          BVIS =          LQVISPNT=
LTHCNTMP=          ACON =          LVLWRBND=
LQHTCPPT= 1382. (E) LQHTCPTM= 293.2 BHC =
LHCLOBND=          SURFTENS=          INTFTIMP=
SOLUBNT=          SOLUBTMP=          AVP =
BVP =          CVP =          VPLWRBND=
BVCP =          CVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          UPFLMLIM=
TOXINHAL=          INHALCNC= 5.000 INHALTME= 300.0 LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =          AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OLS  CHEMNAME = OILS MISCELLANEOUS: LINSEED      PATHCODE = A  T  U
MOLEWT =          NBP =          DENSTEMP= 293.1      NFP = 254.0      CRITTEMP=
DENSITY = 930.0      CRHO = 0.0000E+00(E) LDUPRBN= 303.1      SHPSTATE=L      ARHO = 1169.      (E) BRHO = -0.8000      (E)
CRHO = 0.0000E+00(E) LDUPRBN= 303.1      DLWRBN= 273.1      LQVISPNT= 0.5500E-01      LQVISTMP= 289.1
AVIS = -13.69      (E) BVIS = 3120.      (E) LVUPRBN= 298.1      LVLWRBN= 288.1      LOTHRCND= 0.1314      (E)
LTHCNTMP= 293.1      ACON = 0.1485      (E) BCON = -0.5815E-04(E) LTCUPBN= 323.1      LTCLOBND= 273.1
LQHTCPT= 1842.      LQHTCPTM= 293.1      AHC = 1842.      (E) BHC = 0.0000E+00(E) LHCUPBN= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS= 0.5000E-01(E) INTFTMP= 293.1
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBN=          VPLWRBN=          AVCVP =
BVCP =          CVCP =          DVCP =          VHCUPBN=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOM:STN= -0.3900E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE= 0.6680E-04
TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OMN  CHEMNAME = OIL: MINERAL          PATHCODE = A  T  U
MOLEWT =          NBP      =          NFP      =          CRITTEMP=          CRITPRES=
DENSITY = 830.0 (E) DENSTEMP= 293.2          SHPSTATE=L          ARHO      = 850.0 (E) BRHO      = 0.0000E+00(E)
CRHO      = 0.0000E+00(E) LDUPRBND= 303.0 (E) LDLWRBND= 283.0 (E) LQVISPNT= 0.3800E-01(E) LQVISTMP= 311.2
AVIS      =          BVIS      =          LVUPRBND=          LVLWRBND=          LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1470 (E) BCON      = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC      = 855.0 (E) BHC      = 3.780 (E) LHCUPEND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A      =          B      =          AVP      = 9.515 (E)
BVP      = 2076. (E) CVP      = 0.0000E+00(E) VFUPRBND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP      =
BVCP      =          CVCP      =          DVCP      =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02          UPTOXLIM= 0.1500E-01
LATETOX  =          ABFLMTMP=          MOLRATIO=          AIRFUEL  =          FLMETEMP=
MOLFRAC  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OMS CHEMNAME = OIL: MINERAL SEAL PATHCODE = A T U

MOLEWT =	NBP =	533.0	(E) NFP =	261.0	CRITTEMP=	CRITPRES=
DENSITY =	811.0	(E) DENSTEMP=	288.2	SHPSTATE=L	ARHO =	850.0 (E) BRHO = 0.0000E+00(E)
CRHO =	0.0000E+00(E)	LDUPRBND=	303.0	(E) LDWPRSD=	283.0 (E) LQVISPT=	0.5800E-02(E) LQVISTMP= 293.0 (E)
AVIS =	-18.80	(E) BVIS =	4000.	(E) LVUPRSD=	303.0 (E) LVLWRBND=	283.0 (E) LQTHRCND= 0.1310 (E)
LTHCNTMP=	293.0	(E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E) LTCUPBND=	323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT=	1970.	(E) LQHTCPTM=	293.0	(E) AHC =	855.0 (E) BHC =	3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND=	283.0	(E) SURFTENS=	0.2500E-01(E)	SFTNTMP=	293.0 (E) INTFTENS=	0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=		SOLUBTMP=		A =	B =	AVP = 9.515 (E)
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPRSD=	373.0 (E) VPLWRSND=	293.0 (E) AVCP =
BVCP =		CVCP =		DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	-0.4200E+08(E) HTDECOMP=	HTSOIITN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE= 0.6667E-04
TOXINHAL=	200.0	INHALCNC=		INHALTME=	LOTOXLIM=	0.5000E-03 UPTOXLIM= 0.5000E-02
LATETOX =		ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OMT  CHEMNAME = OIL: MOTOR          PATHCODE = A  T  U
MOLECWT =      NBP =      CRITPRES=
DENSITY = 840.0 (E) DENSTEMP= 288.2 SHPSTATE=L      ARHO = 900.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.0 (E) LDLWRBND= 283.0 (E) LOVISPT= 0.2750 (E) LOVISTMP= 311.2
AVIS =      BVIS =      LVUPRBD=      LVLWRBND=      LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBD= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP =      CVCP =      DVCN =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMBTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIN= 0.5000E-02 UPTOXLIM= 0.1500E-01
LATETOX =      ABFLTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ONF CHEMNAME = OIL: NEATSFOOT

PATHCODE = A T U

CHEMNAME = OIL: NEATSFOOT		PATHCODE = A T U														
MOLECW	=	NBP	=	NFP	=	273.0	(E)	CRITTENP=	CRITPRES=							
DENSITY	=	910.0	(E)	DENSTEMP=	293.2	SHPSIATE=L	ARHO	=	900.0	(E)	BRHO	=	0.0000E+00(E			
CRHO	=	0.0000E+00(E)	LDUPREND=	303.0	(E)	LDLWRBND=	283.0	(E)	LOVISPT=	0.3875E-01(E)	LOVISTMP=	311.2	(E)			
AVIS	=	BVIS	=	LVUPRBND=	LVLRBND=	LQTHRCND=	0.1310	(E)								
LTHCNTMP=	253.0	(E)	ACON	=	0.1470	(E)	BCON	=	-0.5200E-04(E)	LTCUPBND=	323.0	(E)	LTCLOBND=	273.0	(E)	
LQHTCPPT=	1970.	(E)	LQHTCPTM=	293.0	(E)	AHC	=	855.0	(E)	BHC	=	3.780	(E)	LHCUPBND=	313.0	(E)
LHCLOBND=	283.0	(E)	SURFTENS=	0.2500E-01(E)	SFTNTEMP=	293.0	(E)	INTFTENS=	0.5000E-01(E)	INTFTTMP=	293.0	(E)				
SOLUBPNT=			SOLUBTMP=			A	=	B	=	AVP	=	9.515	(E)			

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OOD  CHEMNAME = FUEL OIL: 1-D          PATHCODE = A  T  U
MOLEWT =          NBP =          456.0  (E)  NFP =          240.0  CRITTEMP=
DENSITY =          810.0  (E)  DENSTEMP=          268.2          SHPSTATE=L  ARHO =          1088.  CRITPRES=
CRHO =          0.0000E+00  LDUPRBN=          303.2          LDLWRBN=          273.2          LQVISTMP=          293.2  BRHO =          -1.0000
AVIS =          -13.90  BVIS =          2100.          LVUPRBN=          298.2          LVLWRBN=          233.2          LQTHRCND=          0.1310  (E)
LTHCNTMP=          293.0  (E)  ACON =          0.1470  (E)  BCON =          -0.5200E-04(E)  LTCUPBN=          323.0  (E)  LTCLOBND=          293.0  (E)
LQHTCPPT=          1968.          LQHTCPTM=          293.2          AHC =          854.8          BHC =          3.768          LHCUPBN=          373.2
LHCLOBND=          293.2          SURFTENS=          0.2750E-01(E)  SFTNTMP=          293.2          INTFTENS=          0.4800E-01(E)  INTFTTMP=          293.2
SOLUBPNT=          2076.          CVP =          -0.1599          VFUPRBN=          423.2          VPLWRBN=          293.2          AVP =          9.515
BVCP =          2076.          CVC =          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04
HTFUSION=          2076.          LHTVAPOR=          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04
HTREACTN=          2076.          HTPOLYMR=          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04
TOXINHAL=          2076.          INHALCNC=          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04
LATETOX =          2076.          ABFLMTMP=          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04
MOLFRAC =          2076.          MOLRATIO=          0.2512E+06          HTCONSTN=          -0.4312E+08          HTDECOMP=          6.000          BURNRATE=          0.6667E-04

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OOL CHEMNAME = OIL: OLIVE

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=	
DENSITY = 915.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO =	712.0 (E) BRHO =	-1.000 (E)
CRHO = 0.0000E+00(E)	LDUPREND= 313.0 (E)	LDLWRBND= 283.0 (E)	LOVISPNT=	1.600 (E) LOVISTMP=	293.0 (E)
AVIS = -24.95 (E)	BVIS = 7450. (E)	LVUPREND= 333.0 (E)	VLWRBND=	283.0 (E) LQTHRCND=	0.1310 (E)
LTHCNTMP= 293.0 (E)	ACON = 0.1470 (E)	BCON = -0.5200E-04(E)	LTCUPBND=	323.0 (E) LTCLOBND=	273.0 (E)
LQHTCPPT= 2000. (E)	LOHTCPTM= 293.0 (E)	AHC = 2000. (E)	BHC =	0.0000E+00(E) LHCUPBND=	313.0 (E)
LHCLOBND= 273.0 (E)	SURFTENS= 0.2500E-01(E)	SFTNTMP= 293.0 (E)	INTFTENS=	0.5000E-01(E) INTFTMP=	293.0 (E)
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	9.510 (E)
BVP = 2076. (E)	CVP = 0.0000E+00(E)	VFUPREND= 323.0 (E)	VPLWRBND=	273.0 (E) AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.3710E+08(E)	HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIN=	UPTOXLIM=	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OON  CHEMNAME = FUEL OIL: NO 1 (KEROSENE)          PATHCODE = A  T  U
MOLEWT =      NBP      = 466.0 (E) NFP      = 225.0 (E) CRITEMP=
DENSITY = 810.0 (E) DENSTEMP= 288.2 SHPSSTATE=L      ARHO      = 1088. BRHO      = -1.0000
CRHO      = 0.0000E+00 LDUPRBND= 303.2 LDLWFBND= 273.2 LOVISPT= 0.1200E-02 LOVISTMP= 293.2
AVIS      = -13.90 BVIS      = 2100. LVUPRBND= 298.2 LVLWFBND= 233.2 LOTHRCND= 0.1314
LTHCNTMP= 293.2 ACON      = 0.1469 BCON      = -0.5233E-04 LTCUPBND= 373.2 LTCLOBND= 253.2
LQHTCPPT= 1968. LQHTCPTM= 293.2 AHC      = 854.8 BHC      = 3.768 LHCUPBND= 373.2
LHCLOBND= 293.2 SURFTENS= 0.2750E-01(E) SFTNTMP= 293.2 INTFTENS= 0.4800E-01(E) INTFTTMP= 293.2
SOLUBPNT= SOLUBTMP= A      = B      = AVP      = 9.515
BVP      = 2076. CVP      = -0.1599 VFUPRBND= 423.2 VPLWFBND= 293.2 AVCPU      =
BVCP      = CVCP      = DVCP      = VHCUPBND=
HTFUSION= LHTVAPOR= 0.2512E+06 HTCOMSTN= -0.4312E+08 HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLWLM= 0.7000 UPFLMLIM= 5.000 BURNRATE= 0.6667E-04
TOXINHAL= 200.0 INHALCNC= INHALIME= LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OPM  CHEMNAME = OILS EDIBLE: PALM
      MOLECW =  NBP =  DENSTMP = 310.9  NFP = 297.0  (E) CRITTEMP =
      DENSITY = 900.0  CRHO = 0.0000E+00(E) LDUPRND = 323.1  SHPSTATE=L  ARHO = 1149.  (E) BRHO = -0.8000  (E
      AVIS =  LTHCNTMP = 293.1  ACON = 0.1485  (E) BCON = -0.5815E-04(E) LTCUPBND = 323.1  LTCLOBND = 273.1
      LQHTCPPT = 2010.  (E) LQHTCPTM = 310.1  AHC = 2010.  (E) BHC = 0.0000E+00(E) LHCUPBND = 323.1
      LHCLOBND = 310.1  SURFTENS = 0.2500E-01(E) SFTNTMP = 310.1  INTFTENS = 0.5000E-01(E) INTFTIMP = 310.1
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP =
      BVP =  CVP =  VFUPRND =  VPLWRBND =  AVCP =
      BVCP =  CVCP =  DVCP =  VHCUPBND =  VHCLOBND =
      HTFUSION =  LHTVAPOR =  HTCO*STN = -0.3600E+08(E) HTDECONP =  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLMLIM =  UPFLMLIM =  BURNRATE = 0.6680E-04
      TOXINHAL =  INHALCNC =  INHALTME =  LOTOXLIM =  UPTOXLIM =
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OPN  CHEMNAME = OIL: PEANUT                PATHCODE = A  T  U
MOLECW =          NBP =          CRITPRES=
DENSITY = 910.0 (E) DENSTEMP= 298.2          CRITTEMP=
CRHO = 0.0000E+00(E) LDUPREND= 313.0 (E) LDUPREND= 283.0 (E) LOVISPT= 712.0 (E) BRHO = -1.000 (E)
AVIS = -24.95 (E) BVIS = 7450. (E) LVUPREND= 333.0 (E) LVUPREND= 283.0 (E) LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACCN = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.510 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPREND= 323.0 (E) VPLWRBND= 273.0 (E) AVCP =
BVCP =          CVCP =          DVCN =          VHCUPBND=
HTFUSICN=          LHTVAPOR=          HTCOMSTN= -0.3710E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OPT  CHEMNAME = OIL: PENETRATING
      MOLEWT =      NBP =      CRITPRES=
      DENSITY = 890.0 (E) DENSTEMP= 293.2 SHPSTATE=L      ARHO =      BRHO =
      CRHO =      LDUPRBND=      LDW2SND=      LQVISPT= 0.5800E-02(E) LOVISTMP= 293.0 (E)
      AVIS = -18.80 (E) BVIS = 4000. (E) LVUPPSND= 303.0 (E) LVLWRB.D= 283.0 (E) LQTHRCND= 0.1310 (E)
      LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPB.D= 323.0 (E) LTCLOBND= 273.0 (E)
      LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E)
      LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
      SOLUBPNT=      A =      B =      AVP = 9.515 (E)
      BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPPSND= 373.0 (E) VPLWRB.D= 293.0 (E) AVCP =
      BVCP =      CVCP =      DVCV =      VHCUPB.D=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
      LAETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ORD CHEMNAME = OIL: ROAD

PATHCODE = A T U

MOLECW =	NBP =	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 1000.	(E) DENSTEMP = 298.2	SHPSSTATE=L	ARHO =	(E) BRHO =	0.0000E+00(E
CRHO = 0.0000E+00(E)	LDUPRBND = 303.0	(E) LDLPBND = 283.0	(E) LOVISPT =	0.5800E-02(E)	LOVISTMP = 293.0 (E
AVIS = -18.80	(E) BVIS = 4000.	(E) LVUPRBND = 303.0	(E) LVLWRBND =	283.0	(E) LQTHRCND = 0.1310 (E
LTHCNTMP = 293.0	(E) ACON = 0.1470	(E) BCON = -0.5200E-04(E)	LTCUPBND =	323.0	(E) LTCLOBND = 273.0 (E
LQHTCPPT = 1970.	(E) LQHTCPTM = 293.0	(E) AHC = 855.0	(E) BHC =	3.780	(E) LHCUPBND = 313.0 (E
LHCLOBND = 283.0	(E) SURFTENS = 0.2500E-01(E)	SFTNTMP = 293.0	(E) INTFTENS =	0.5000E-01(E)	INTFTTMP = 293.0 (E
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =	9.515 (E
BVP = 2076.	(E) CVP = 0.0000E+00(E)	VFUPRBND = 373.0	(E) VPLWRBND =	293.0	(E) AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =	
HTFUSION =	LHTVAPOR =	HTCOMBNTN = -0.4200E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	0.5000E-02
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ORG  CHEMNAME = OIL: RANGE      PATHCODE = A  T  U
MOLEWT =      NBP      = 473.0 (E) NFP      = 230.0 (E) CRITTEMP=
CRITPRES=
DENSITY = 800.0 (E) DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1088.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRBND= 303.2      LDLWRBND= 273.2      LQVISPAT= 0.1200E-02      LQVISTMP= 293.2
AVIS      = -13.90      BVIS      = 2100.      LVUPRBND= 298.2      LVLWRBND= 233.2      LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1470 (E) BCON      = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC      = 855.0 (E) EHC      = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.515 (E)
BVP      = 2076. (E) CVP      = 0.0000E+00(E) VFUPRBND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2512E+06      HTCOM:BTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.7000      UPFLMLIM= 5.000      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

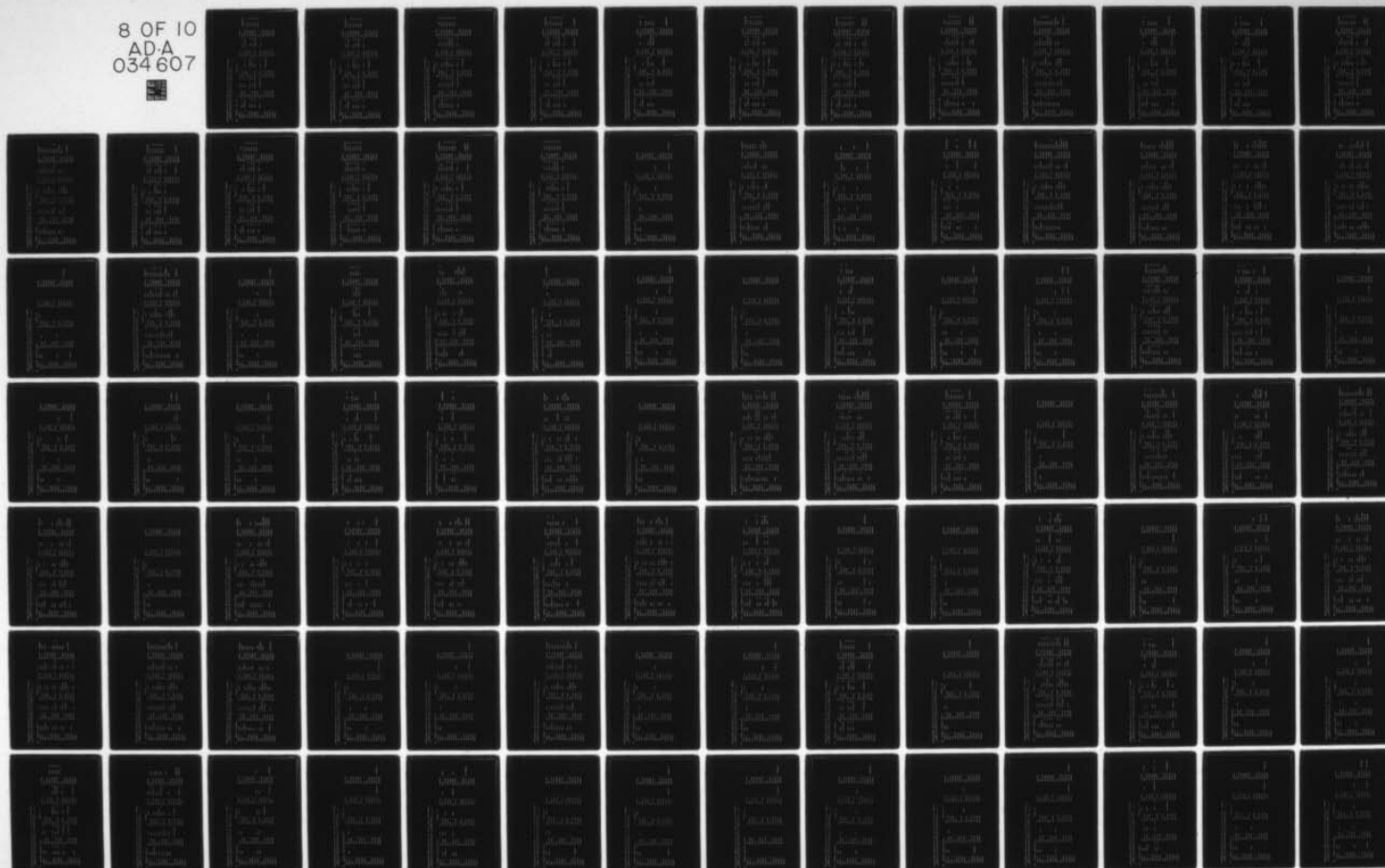
UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

8 OF 10
AD-A
034 607



PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ORN	CHEMNAME = OIL: ROSIN	PATHCODE = A T U			
MOLECWT =	NBP =	573.0	(E) NFP =	CRITTEMP=	CRITPRES=
DENSITY =	960.0 (E) DNSTEMP=	288.2	SHPSTATE=L	ARHO =	900.0 (E) BRHO =
CRHO =	0.0000E+00(E) LDUPRND=	303.0	(E) LDWRBND=	283.0	(E) LQVISTMP=
AVIS =	BVIS =		LVUPRND=		0.1835E-01(E) LQVISTMP=
LTHCNTMP=	293.0 (E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E) LTCUPBND=	323.0
LQHTCPPT=	1970. (E) LQHTCPTM=	293.0	(E) AHC =	855.0	(E) BHC =
LHCLOBND=	283.0 (E) SURFTENS=	0.2500E-01(E) SFTNTMP=	293.0	(E) INTFTENS=	0.5000E-01(E) INTFTTMP=
SOLUBPNT=			A =	B =	AVP =
BVP =	2076. (E) CVP =	0.0000E+00(E) VFUPRND=	373.0	(E) VPLWRBND=	293.0
BVCP =			DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=		HTCOMBNTN=	-0.4200E+08(E) HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=		LOFLMLIM=		UPFLMLIM=
TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLIM=
LAFETOX =	ABFLMTMP=		MOLRATIO=		AIRFUEL =
MOLFRAC =					FLMETEMP=

ORS	CHEMNAME = OIL: RESIN	PATHCODE = A T U						
	MOLECWt =	NBP	=	573.0	(E) NFP	=	CRITTEMP=	CRITPRES=
	DENSITY =	960.0	(E)	DENSTEMP=	288.2	SHPSTATE=L	ARHO	= 900.0 (E) BRHO = 0.0000E+00(E)
	CRHO =	0.0000E+00(E)		LDUPRBND=	303.0	(E)	LDLWRBND= 283.0	(E) LQVISPNT= 0.1835E-01(E) LOVISTMP= 373.2
	AVIS =	BVIS	=		LVUPRBND=		LVLWRBND=	LQTHRCND= 0.1310 (E)
	LTHCNTMP=	293.0	(E)	ACON	=	-0.5200E-04(E)	LTCUPBND= 323.0	(E) LTCLOBND= 273.0 (E)
	LQHTCPPT=	1970.	(E)	LQHTCPTM=	293.0	(E)	AHC	= 855.0 (E) BHC = 3.780 (E) LHCUPEND= 313.0 (E)
	LHCLQBND=	283.0	(E)	SURFTENS=	0.2500E-01(E)	SFTINTMP=	293.0	(E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
	SOLUBPNT=			SOLUBTMP=	A	=	B	= AVP = 9.515 (E)
	BVP =	2076.	(E)	CVP	=	0.0000E+00(E)	VFUPRBND= 373.0	(E) VPLWRBND= 293.0 (E) AVCPP =
	BVCP =			CVCP	=	DVCP	=	VHCUPBND= VHCLOBND=
	HTFUSION=			LHTVAPOR=		HTCOMSTN= -0.4200E+08(E)	HTDECOMP=	HTSOLUTION=
	HTREACTN=			HTPOLYMR=		LOFLMLIM=		UPFLMLIM= BURNRATE=
	TOXINHAL=			INHALLCNC=		INHALLTME=		LOTOXLIM= UPTOXLIM=
	LAFETOX =			ABFLMTMP=		MOLRATIO=		AIRFUEL = FLWETEMP=
	MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

OSB  CHEMNAME = OIL: SOYA BEAN          PATHCODE = A  T  U
MOLEWT =          NBP =          NFP = 253.0  CRITTEMP=
DENSITY = 920.0 (E) DENSTEMP= 288.2  SHPSTATE=L  ARHO = 712.0 (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRND= 313.0 (E) LDWRBND= 283.0 (E) LOVISPT= 1.600 (E) LOVISTMP= 293.0 (E)
AVIS = -24.95 (E) BVIS = 7450. (E) LVUPRND= 333.0 (E) LVLWRBND= 283.0 (E) LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          E =          AVP = 9.510 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRND= 323.0 (E) VPLWRBND= 273.0 (E) AVCP =
BVCP =          CVCP =          DVCP =          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMBNTN= -0.3710E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
OSD  CHEMNAME = OIL: SPINDLE      PATHCODE = A  T  U
      MOLEWT =      NBP =      CRITTEMP=      CRITPRES=
      DENSITY = 850.0  DENSTEMP= 288.2  SHPSTATE=L  ARHO = 850.0  (E) BRHO = 0.0000E+00(E)
      CRHO = 0.0000E+00(E) LDUPRND= 303.0  (E) LDLPBND= 283.0  (E) LQVISPT= 0.2585E-01(E) LQVISTMP= 311.2
      AVIS =      BVIS =      LVLWRBND=      LQTHRCND= 0.1310  (E)
      LTHCNTMP= 293.0  (E) ACON = 0.1470  (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0  (E) LTCLOBND= 273.0  (E)
      LQHTCPPT= 1970.  (E) LQHTCPTM= 293.0  (E) AHC = 855.0  (E) BHC = 3.780  (E) LHCUPBND= 313.0  (E)
      LHCLOBND= 283.0  (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0  (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0  (E)
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.515  (E)
      BVP = 2076.  (E) CVP = 0.0000E+00(E) VFUPRND= 373.0  (E) VPLWRBND= 293.0  (E) AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMBNTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
      LAETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OSF CHEMNAME = OILS EDIBLE: SAFFLOWER

PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=	
DENSITY = 920.0	DENSTEMP= 293.1	SHPSSTATE=L	ARHO =	(E) BRHO = -0.8000	(E)
CRHO = 0.0000E+00(E)	LDUPREND= 313.1	LDLWPREND= 283.1	LQVISPNT=	LQVISTMP=	
AVIS =	BVIS =	LVUPREND=	LVLWPREND=	LOTHRCND= 0.1314	
LTHCNTMP= 293.1	ACON = 0.1485	(E) BCON = -0.5815E-04(E)	LTCUPBND=	LTCLOBND= 273.1	
LQHTCPPT= 2010.	(E) LQHTCPTM= 293.1	AHC = 2010.	(E) BHC =	LHCUPBND= 313.1	
LHCLOBND= 283.1	SURFTENS= 0.2500E-01(E)	SFTNTMP= 293.1	INTFTENS=	INTFTTMP= 293.1	
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	
BVP =	CVP =	VFUPREND=	VPLWPREND=	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCONSTN= -0.3600E+08(E)	HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE= 0.6680E-04	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OSP  CHEMNAME = OIL: SPERM      PATHCODE = A  T  U
MOLEWT =      NBP =      CRITPRES=
DENSITY = 870.0 (E) DENSTEMP= 298.2      SHPSTATE=L      ARHO = 850.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBD= 303.0 (E) LDLWRBND= 283.0 (E) LQVISPNT= 0.1715E-01(E) LQVISTMP= 311.2
AVIS =      BVIS =      LVLWRBND=      LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.515 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBD= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OSX CHEMNAME = FUEL OIL: 6

PATHCODE = A T U

MOLEWT =	NBP =	485.0	(E) NFP =	285.0	(E) CRITTEMP =	CRITPRES =
DENSITY =	950.0	(E) DENSTEMP =	293.2	SHPSTATE=L	ΔRHO =	900.0 (E) BRHO = 0.0000E+00(E)
CRHO =	0.0000E+00(E)	LDUPRBND =	303.0	(E) LDLWRBND =	283.0 (E) LOVISPT =	0.4935 (E) LOVISTMP = 311.2
AVIS =	BVIS =	LVUPRBND =		LVLRBND =		LQTHRCMD = 0.1310 (E)
LTHCNTMP =	293.0	(E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E)	LTCUPBND = 323.0 (E) LTCLOBND = 273.0 (E)
LQHTCPPT =	1970.	(E) LQHTCPTM =	293.0	(E) AHC =	855.0 (E) BHC =	3.780 (E) LHCUPBND = 313.0 (E)
LHCLOBND =	283.0	(E) SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.0 (E) INTFTENS =	0.5000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT =	SOLUBTMP =	A =		B =		AVP = 9.515 (E)
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPRBND =	373.0 (E) VPLWRBND =	293.0 (E) AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	-0.4200E+08(E)	HTDECOMP =		HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	1.000	UPFLMLIM =	5.000	BURNRATE = 0.6667E-04
TOXINHAL =	INHALCNC =	INHALTME =		LOTOXLIM =	0.5000E-02	UPTOXLIM = 0.1500E-01
LATEFOX =	ABFLNTMP =	MOLRATIO =		AIRFUEL =		FLMETEMP =
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OSY  CHEMNAME = OIL: SPRAY          PATHCODE = A  T  U
MOLECW =      NBP      = 583.0 (E) NFP      =      CRITTEMP=
DENSITY = 820.0  DENSTEMP= 288.2  SHPSTATE=L      ARHO      = 1113.  BRHO      = -1.0000
CRHO      = 0.0000E+00  LDUPRND= 303.2  LDWRSND= 273.2  LQVISPNT= 0.2050E-02  LQVISTMP= 293.2
AVIS      = -12.95  BVIS      = 1982.  LVUPRND= 298.2  LVLWRBND= 233.2  LQTHRCND= 0.1310 (E
LTHCNTMP= 293.0 (E) ACON      = 0.1470 (E) BCON      = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC      = 855.0 (E) BHC      = 3.780 (E) LHCUPBND= 313.0 (E
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.515 (E
BVP      = 2076. (E) CVP      = 0.0000E+00(E) VFUPRND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.4200E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.6000      UPFLMLIM= 4.600      BURNRATE= 0.6667E-04
TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OTC  CHEMNAME = OILS EDIBLE: TUCUM      PATHCODE = A  T  U
      MOLECW =      NBP =      CRITEMP=
      DENSITY = 893.0  DENSTEMP= 333.1  SHPSTATE=L  ARHO = 1126.  (E) BRHO = -0.7000  (E
      CRHO = 0.0000E+00(E) LDUPREND= 333.1  LDLWRBND= 303.1  LQVISPNT=  LVLWRBND=  LQVISTMP=
      AVIS =      BVIS =      LVUPRBND=      LQTHRCND= 0.1314  (E
      LTHCNTMP= 293.1  ACON = 0.1485  (E) BCON = -0.5815E-04(E) LTCUPBND= 323.1  LTCLOBND= 273.1
      LQHTCPPT= 2010.  (E) LQHTCPTM= 303.1  AHC = 2010.  (E) BHC = 0.0000E+00(E) LHCUPBND= 323.1
      LHCLOBND= 303.1  SURFTENS= 0.2500E-01(E) SFTNTEMP= 303.1  INTFTENS= 0.5000E-01(E) INTFTTMP= 303.1
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VFUPRBND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.3600E+08(E) HTDECOMP=      HTSOLUTN=
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.6680E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OTD  CHEMNAME = FUEL OIL: 2-D          PATHCODE = A   T   U
MOLEWT =          NBP =          555.0 (E) NFP =          255.0 CRITTEMP=          CRITPRES=
DENSITY = 870.0 (E) DENSTEMP= 293.2 SHPSTATE=L ARHO =          850.0 (E) BRHO =          0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPRBND= 303.0 (E) LDLWRBND= 283.0 (E) LQVISPT= 0.2000E-02 LQVISTMP= 293.2
AVIS = -10.52 BVIS = 1261. LVUPRBND= 373.2 LVLWRBND= 253.2 LQTHRCND= 0.1310 (E
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E
LQHTCPPT= 1970. (E) LQHTCPTM= 293.0 (E) AHC = 855.0 (E) BHC = 3.780 (E) LHCUPBND= 313.0 (E
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =          9.515 (E
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBND= 373.0 (E) VPLWRBND= 293.0 (E) AVCP =          VHCLOBND=
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCON:STN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM= 1.300 UPFLMLIM= 6.000 BURNRATE= 0.6667E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-02 UPTOXLIM= 0.1500E-01
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OTF  CHEMNAME = OIL: TRANSFORMER          PATHCODE = A  T  U
MOLEWT =      NBP =      DENSTMP= 288.2      NFP = 214.0      CRITTENP=      CRITPRES=
DENSITY = 880.0      DENSTMP=      SHPSTATE=L      ARHO = 900.0      (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBND= 303.0      (E) LDLWRBND= 283.0      (E) LQVISINT= 0.1025E-01(E) LQVISTMP= 311.2
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND= 0.1310      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1470      (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0      (E) LTCLOBND= 273.0      (E)
LQHTCPPT= 1970.      (E) LQHTCPTM= 293.0      (E) AHC = 855.0      (E) BHC = 3.780      (E) LHCUPBND= 313.0      (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0      (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.515      (E)
BVP = 2076.      (E) CVP = 0.0000E+00(E) VFUPRBND= 373.0      (E) VPLWRBND= 293.0      (E) AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOM3TN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OTL CHEMNAME = OIL: TALL PATHCODE = A T U

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 935.0	DENSTEMP= 298.2	SHRSTATE=L	ARHO = 1442.	BRHO = -1.700
CRHO = 0.0000E+00	LDUPRSD= 333.2	LDLWRBND= 273.2	LQVISPA.T= 0.4200E-01	LQVISTMP= 311.2
AVIS =	BVIS =	LVUPRSD=	LVLWRBND=	LQTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E)	ACON = 0.1470 (E)	BCON = -0.5200E-04(E)	LTCUPBND= 323.0 (E)	LTCLOBND= 273.0 (E)
LQHTCPPT= 1970. (E)	LQHTCPTM= 293.0 (E)	AHC = 855.0 (E)	BHC = 3.780 (E)	LHCUPBND= 313.0 (E)
LHCLOBND= 283.0 (E)	SURFTENS= 0.2500E-01(E)	SFTNTMP= 293.0 (E)	INTFTENS= 0.5000E-01(E)	INTFTTMP= 293.0 (E)
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP = 9.515 (E)
BVP = 2076. (E)	CVP = 0.0000E+00(E)	VFUPRSD= 373.0 (E)	VPLWRBND= 293.0 (E)	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.4200E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/14/53 PAGE234A

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OTN	CHEMNAME = OIL: TANNER'S	PATHCODE = A T U	
MOLECW =	NBP =	NFP =	CRITTEMP =
DENSITY =	DENSTEMP =	SHPSTATE =	ARHO =
CRHO =	0.0000E+00(E)	LDLWPSND =	303.0 (E)
AVIS =	-18.80 (E)	BVIS =	4000. (E)
LTHCNTMP =	293.0 (E)	ACON =	0.1470 (E)
LQHTCPPT =	1970. (E)	LQHTCPTM =	293.0 (E)
LHCLOBND =	283.0 (E)	SURFTENS =	0.2500E-01(E)
SOLUBPNT =		SOLUBTMP =	
BVP =	2076. (E)	CVP =	0.0000E+00(E)
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCORSTN =	-0.4200E+08(E)
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		HTDECOMP =	
		VFWPSND =	373.0 (E)
		DVCP =	
		VLCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	
		AVP =	9.515 (E)
		AVCP =	293.0 (E)
		VHCLOBND =	
		INTFTTMP =	0.5000E-01(E)
		LHCUPBND =	313.0 (E)
		LTHRCND =	0.1310 (E)
		LQVISTMP =	293.0 (E)
		BRHO =	0.0000E+00(E)
		CRITPRES =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OTW CHEMNAME = FUEL OIL: 2 PATHCODE = A T U

MOLEWT =	NBP =	555.0	(E) NFP =	244.0	CRITTEMP=	CRITPRES=
DENSITY =	870.0	(E) DENSTEMP=	293.2	SHPSTATE=L	ARHO =	850.0 (E) BRHO =
CRHO =	0.0000E+00(E)	LDUPRND=	303.0	(E) LDLWRBND=	283.0	(E) LQVISTMP=
AVIS =	-10.52	BVIS =	1261.	LVUPRND=	373.2	LQVISTMP=
LTHCNTMP=	293.0	(E) ACON =	0.1470	(E) BCON =	-0.5200E-04(E)	LQVISTMP=
LQHTCPT=	1970.	(E) LQHTCPTM=	293.0	(E) AHC =	855.0	(E) BHC =
LHCLOBND=	283.0	(E) SURFTENS=	0.2500E-01(E)	SFTNTEMP=	293.0	(E) INTFTENS=
SOLUBPNT=		SOLUBTMP=		A =	B =	AVP =
BVP =	2076.	(E) CVP =	0.0000E+00(E)	VFUPRND=	373.0	(E) VPLWRBND=
BVCP =		CVCP =		DVCP =		VHCUPBND=
HTFUSION=		LHTVAPOR=		HTCOMBTN=	-0.4200E+08(E)	HTDECOMP=
HTREACTN=		HTPOLYMR=		LOFLWLIM=		UPFLWLIM=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=
LATEFOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =
MOLFRAC =						

CRITPRES= 293.2
 LQVISTMP= 293.2
 LQVISTMP= 0.1310 (E)
 LQVISTMP= 273.0 (E)
 LQVISTMP= 313.0 (E)
 LQVISTMP= 293.0 (E)
 AVP = 9.515 (E)
 VHCLOBND= 0.6667E-04
 HTSOLUTN= 0.1500E-01
 BURNRATE= 0.1500E-01
 UPTOXLIM= 0.1500E-01
 FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
OVG  CHEMNAME = OIL: VEGETABLE      PATHCODE = A  T  U
MOLEWT =          NBP =          CRITPRES=
DENSITY = 920.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 712.0 (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRBD= 313.0 (E) LDLWRBD= 283.0 (E) LQVISPNT= 1.600 (E) LOVISTMP= 293.0 (E)
AVIS = -24.95 (E) BVIS = 7450. (E) LVUPRBD= 333.0 (E) LVLWRBD= 283.0 (E) LOTHRCND= 0.1310 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1470 (E) BCON = -0.5200E-04(E) LTCUPBND= 323.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2500E-01(E) SFTNTEMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.510 (E)
BVP = 2076. (E) CVP = 0.0000E+00(E) VFUPRBD= 323.0 (E) VPLWRBD= 273.0 (E) AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN= -0.3710E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLWTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PATHCODE = SS

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

OXY	CHEMNAME = OXYGEN, LIQUEFIED	PATHCODE = A	I
MOLECWT =	32.00	NBP =	90.30
DENSITY =	1140.	DENSTEMP =	90.15
CRHO =	0.0000E+00	LDUPRND =	140.1
AVIS =	-10.64	BVIS =	186.0
LTHCNTMP =	90.15	ACON =	0.1500 (E)
LQHTCPPT =	1700.	LQHTCPTM =	90.15
LHCLOBND =	83.15	SURFTENS =	0.1347E-01
SOLUBPNT =		SOLUBTMP =	
BVP =	377.0	CVP =	-0.1500
BVCP =	0.0000E+00	CVCP =	0.0000E+00
HTFUSION =		LHTVAPOR =	0.2130E+06
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	55.00
		SHPSTATE =	L
		LDLWRBND =	90.15
		LVUPRND =	123.1
		(E) BCON =	0.0000E+00(E)
		AHC =	1700.
		SFTNTMP =	90.15
		A =	
		VFUPRND =	100.1
		DVCP =	0.0000E+00
		HTCOM9TN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	155.0
		CRHO =	1736.
		LQVISPT =	0.1880E-03
		LVLWRBND =	83.15
		LTCUPBND =	103.1
		BHC =	0.0000E+00
		INTFTENS =	
		INTFTTMP =	
		AVP =	9.181
		AVCP =	0.2931E+05
		VHCLOBND =	250.0
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PAA		CHEMNAME = PERACETIC ACID		PATHCODE = A P Q	
MOLEWT =		NBP =		NFP =	243.0 (E) CRITTEMP=
DENSITY =	1150.	DENSTMP=	293.1	SHSTATE=L	ARHO =
CRHO =		LDUPRBD=		LDLWRBD=	LQVISPNT=
AVIS =	-12.92 (E) BVIS =	2150.	(E) LVUPRBD=	303.1	LVLWRBD=
LTHCNTMP=		ACON =		BCON =	LTCUPBD=
LQHTCPT=		LQHTCPTM=		AHC =	LHCUPBD=
LHCLOBND=		SURFTENS=		SFTNTMP=	INTFTMP=
SOLUBPNT=		SOLUBTMP=		A =	B =
BVP =	2236.	CVP =	-0.1500	VFUPRBD=	373.1
BVCP =		CVCP =		DVCP =	VPLWRBD=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	VHCUPBD=
HTREACTN=		HTPOLYMR=		LOFLMLIN=	HTSOLUTN=
TOXINHAL=		INHALCNC=		INHALTME=	BURNRATE=
LAFETOX =		ABFLTMP=		MOLRATIO=	UPTOXLIM=
MOLFRAC =					FLMETEMP=
					CRITPRES=
					BRHO =
					LQVISTMP=
					LQTHRCND=
					LTCLOBND=
					LHCUPBD=
					INTFTMP=
					AVP =
					AVCP =
					VHCLOBND=
					HTSOLUTN=
					BURNRATE=
					UPTOXLIM=
					FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PAC  CHEMNAME = PHOSPHORIC ACID                PATHCODE = A  P
MOLEWT = 98.00      NBP      = 403.0      (E)  NFP      =      CRITTEMP=
DENSITY = 1600.      (E)  DENSTMP= 293.2      SHPSTATE=L      ARHO      = 1700.      (E)  BRHO      = 0.0000E+00(E)
CRHO      = 0.0000E+00(E)  LDUPRBD= 313.0      (E)  LDLWRBD= 303.0      (E)  LQVISPNT=      LQVISTMP=
AVIS      =      BVIS      =      LVUPRBD=      LTCUPBND=      LTCLOBND=      LQTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCUPBND=      LTCLOBND=      LQTHRCND=
LQHTCPPT= 3000.      (E)  LQHTCPTM= 293.0      (E)  AHC      = 3000.      (E)  BHC      = 0.0000E+00(E)  LHCUPBND= 303.0      (E)
LHCLOBND= 293.0      (E)  SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      A      =      AVP      =
BVP      =      CVP      =      VFUPRBD=      VPLWRBD=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCORSTN=      HTDECOMP=      HTSOLUTN= -0.8000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.2300      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PAD	CHEMNAME = PROPIONALDEHYDE	PATHCODE = A P Q					
	MOLECWt = 58.08	NBP = 321.2	NFP = 193.0	CRITTEMP=	496.2	CRITPRES= 0.4800E+07	
	DENSITY = 805.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1128.	BRHO = -1.100		
	CRHO = 0.0000E+00	LQUPRBD= 323.2	LDLWRBD= 243.2	LQVISPT= 0.3440E-03	LQVISTMP= 298.2		
	AVIS = -11.31	BVIS = 995.0	LVUPRBD= 323.2	LVLWRBD= 273.2	LQTHRCND= 0.1617		
	LTHCNTMP= 293.2	ACON = 0.2746	BCON = -0.3838E-03	LTCUPBD= 333.2	LTCLOBND= 293.2		
	LQHTCPT= 2219.	LQHTCPTM= 293.2	AHC = 1298.	BHC = 3.140	LHCUPBND= 333.2		
	LHCLOBND= 253.2	SURFTENS= 0.2340E-01	SFTNTEMP= 293.2	INTFTENS= 0.4000E-01(E)	INTFTTMP= 293.0 (E)		
	SOLUBPNT= 21.00	SOLUBTMP= 293.2	A =	B =	AVP = 9.174		
	BVP = 1155.	CVP = -44.16	VFUPRBD= 353.2	VPLWRBD= 235.2	AVCP = 0.1545E+05		
	BVCP = 238.2	CVCP = -0.8792E-01	DVCP = 0.0000E+00	VHCUPBD= 600.0	VHCLQBND= 250.0		
	HTFUSCN=	LHTVAPOR= 0.4899E+06	HTCO#STN= -0.2901E+08	HTDECOMP=	HTSOLUTN= -0.2000E+05(E)		
	HTREACTN=	HTPOLYMR=	LOFLMLIM= 2.600	UPFLMLIM= 16.10	BURNRATE= 0.7333E-04		
	TOXINHAL=	INHALLCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02		
	LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=		
	MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PAH  CHEMNAME = PROPIONIC ANHYDRIDE      PATHCODE = A  O  X  Y
MOLECWT = 130.1      NBP = 442.0      NFP = 230.0      CRITTEMP= 622.0      CRITPRES= 0.3300E+07
DENSITY = 1010.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1330.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPREND= 373.1      LDLWRBND= 273.1      LOVISPNT= 0.1120E-02      LQVISTMP= 293.1
AVIS = -11.20      BVIS = 1290.      LVUPRBND= 373.1      LVLWRBND= 273.1      LQTHRCND= 0.1314
LTHCNTMP= 293.1      ACON = 0.1472      BCON = -0.5350E-04      LTCUPBND= 373.1      LTCLOBND= 273.1
LQHTCPPT= 1784.      LQHTCPTM= 293.1      AHC = 1170.      BHC = 2.093      LHCUPBND= 373.1
LHCLQ3ND= 273.1      SURFTENS= 0.3000E-01      SFTNTMP= 298.1      INTFTENS= 10.53      INTFTIMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP = 2440.      CVP = -0.1500      VFUPRBND= 453.1      VPLWRBND= 293.1      AVCP = 0.7101E+05
BVCP = 308.6      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.3500E+06      HTCOMBTN= -0.2400E+08      HTDECOMP=      HTSOLUTN= -0.8400E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM= 1.480      UPFLMLIM= 11.90      BURNRATE= 0.5010E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02(E)      UPTOXLIM= 0.1500E-01(E)
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PAL  CHEMNAME = N-PROPYL ALCOHOL
*****
MOLECWT = 60.10      NBP = 370.4      NFP = 147.0      CRITTEMP= 536.8      CRITPRES= 0.5200E+07
DENSITY = 803.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1044.      BRHO = -0.8200
CRHO = 0.0000E+00    LDUPRBND= 333.2      LDWRBND= 273.2      LOVISPNT=      LOVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCLOBND=      LTCLOBND=
LQHTCPPT= 2345.      LQHTCPTM= 293.2      AHC = -338.9      BHC = 9.211      LHCUPBND= 353.2
LHCLOBND= 263.2      SURFTENS=      SFNTTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B = 11.64      AVP =
BVP = 2469.      CVP = 0.4004E-01      VFUPRBND= 333.2      VPLWRBND= 253.2      AVCP = 0.1784E+05
BVCP = 251.2      CVCP = -0.6280E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.6808E+06      HTCOMSTN= -0.3055E+08      HTSOLUTN= -0.2000E+05(E
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.100      HTDECOMP=      UPFLMLIM= 13.50      BURNRATE= 0.4833E-04
TOXINHAL= 200.0      INHALCNC= 400.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLNTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PAN CHEMNAME = PHTHALIC ANHYDRIDE

PATHCODE	=	II	A	X	Y
----------	---	----	---	---	---

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PAS  CHEMNAME = POTASSIUM ARSENATE                PATHCODE = SS
      MOLEWT = 180.0      NBP =      CRITTEMP=
      DENSITY = 2800.      DENSTEMP= 293.1      SHPSTATE=S      ARHO =
      CRHO =      LDUPRBND=      LDWRBND=      LQVISTMP=
      AVIS =      BVIS =      LVUPRBND=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCLOBND=
      LQHTCPT=      LQHTCPTM=      AHC =      LHCUPBND=
      LHCLOBND=      SURFTENS=      SFTNTEMP=      INTFTTMP=
      SOLUBPNT= 20.00      SOLUBTMP= 293.1      AVP =
      BVP =      CVP =      VFUPRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMSTN=      HTSOLUTN=
      HTRACTN=      HPOLYMR=      LOFLMLIM=      UPFLMLIM=
      TOXINHAL= 0.6230E-01      INHALCNC=      INHALTME=      LOTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
      MOLFRAC =
      CRITPRES=
      BRHO =
      LQVISTMP=
      LQTHRCND=
      LTCLOBND=
      LHCUPBND=
      INTFTTMP=
      AVP =
      AVCP =
      VHCLOBND=
      HTSOLUTN= 0.1100E+06
      BURNRATE=
      UPTOXLIM=
      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PAT  CHEMNAME = N-PROPYL ACETATE
      MOLECW = 102.1      NBP = 374.8      PATHCODE = A P Q T U
      DENSITY = 886.0      DENSTEMP = 293.2      NFP = 178.2      CRITTEMP = 549.0      CRITPRES = 0.3300E+07
      CRHO = 0.0000E+00      LDUPRND = 333.2      SHPSTATE=L      ARHO = 1208.      BRHO = -1.100
      AVIS = -11.26      BVIS = 1115.      LDW2END = 273.2      LQVISPNT = 0.5760E-03      LQVISTMP = 293.2
      LTHCNTMP = 303.0 (E) ACON = 0.1400 (E) BCON = 0.0000E+00 (E) LTCUPBND = 303.0 (E) LTCLOBND = 273.0 (E)
      LQHTCPPT = 1926.      LQHTCPTM = 293.2      AHC = 698.5      BHC = 4.187      LHCUPBND = 313.2
      LHCLOBND = 273.2      SURFTENS = 0.2430E-01      SFTNTMP = 293.2      INTFTENS = 0.5000E-01 (E) INTFTTMP = 293.0 (E)
      SOLUBPNT = 2.000      SOLUBTMP = 293.2      A = 0.0000E+00 (E) B = 0.0000E+00 (E) AVP = 9.173
      BVP = 1294.      CVP = -64.16      VFUPRND = 413.2      VPLWRBND = 273.2      AVCP = 0.1985E+05
      BVCP = 403.2      CVCP = -0.1424      DVCP = -0.7536E-05      VHCUPBND = 600.0      VHCLOBND = 250.0
      HTFUSION = 0.3362E+06      LHTVAPOR = 0.3362E+06      HTCOMSTN = -0.2800E+08 (E) HTDECOMP = 8.000      HTSOLUTN = 0.5000E-02
      HTREACTN = 200.0      HTPOLYMR = 2.000      LOFLMLIM = 8.000      UPFLMLIM = 8.000      BURNRATE = 0.5000E-03
      TOXINHAL = 200.0      INHALCNC = 2.000      INHALTME = 0.5000E-03      UPTOXLIM = 0.5000E-03      FLMETEMP =
      LATETOX = 200.0      ABFLMTMP = 2.000      MOLRATIO = 0.5000E-03      AIRFUEL = 0.5000E-03
      MOLFRAC = 200.0

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PBO	CHEMNAME = POTASSIUM BINOXALATE	PATHCODE = II SS				
MOLEWT =	128.1	NBP =	CRITTEMP=			
DENSITY =	2000.	DENSTEMP=	293.1	SHPSTATE=S	ARHO =	CRITPRES=
CRHO =		LDUPRBD=	BVIS =	ACON =	LQHTCPTM=	BRHO =
AVIS =		LVUPRBD=	ACON =	LQHTCPTM=	LVUPRBD=	LOVISTMP=
LTHCNTMP=		LVUPRBD=	ACON =	LQHTCPTM=	LVUPRBD=	LOTHRCND=
LQHTCPTM=		LVUPRBD=	ACON =	LQHTCPTM=	LVUPRBD=	LTCLOBND=
LHCLOBND=		LVUPRBD=	ACON =	LQHTCPTM=	LVUPRBD=	LHCUPBND=
SOLUBPNT=	2.240	SOLUBTMP=	273.1	A =	-281.5	INTFTTMP=
BVP =		CVP =		VFUPRBD=		AVP =
BVCP =		CVCP =		DVCP =		AVCP =
HTFUSION=		LHTVAPOR=		HTCONBTN=		VHCLOBND=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		HTSOLUTN=
TOXINHAL=		INHALCNC=		INHALTME=		BURNRATE=
LAFETOX =		ABFLWTMP=		MOLRATIO=		UPTOXLIM=
MOLFRAC =						LMETEMP=

0.5000E-04 0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PBP  CHEMNAME = PROPYLENE BUTYLENE POLYMER      PATHCODE = A  T  U
MOLECWT =      NBP      =      CRITEMP=
DENSITY =      DENSTEMP=      ARHO      =
CRHO      =      LDUPRBND=      LQVISPT=
AVIS      =      BVIS      =      LVLWRBND=      0.1500      (E)
LTHCNTMP=      293.0      (E) ACON      =      0.1500      (E) LTCUPBND=      303.0      (E) LTCLOBND=      283.0      (E)
LQHTCPPT=      2000.      (E) LQHTCPTM=      293.0      (E) AHC      =      2000.      (E) BHC      =      0.0000E+00(E) LHCUPBND=      303.0      (E)
LHCLOBND=      283.0      (E) SURFTENS=      0.2500E-01(E) SFTNTMP=      293.0      (E) INTFTENS=      0.5000E-01(E) INTFTMP=      293.0      (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      =
BVP      =      CVP      =      VFUPRBND=      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMSTN=      -0.4000E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX      =      ABFLWTMP=      MOLRATIO=      AIRFUEL      =
MOLFRAC      =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S1 SYSTEM OF UNITS

```

PBR  CHEMNAME = PHOSPHORUS TRIBROMIDE          PATHCODE = A  0

MOLECW = 270.7  NBP = 446.0
DENSITY = 2880.  DENSTEMP = 298.1
CRHO = 0.0000E+00(E) LDUPRND = 303.1
AVIS = -9.645  BVIS = 993.9
LTHCNTMP =  ACON =
LQHTCPPT =  LQHTCPTM =
LHCLOBND =  SURFTENS = 0.4580E-01
SOLUBPNT =  SOLUBTMP =
BVP = 2138.  CVP = -0.1500
BVCP = 0.0000E+00  CVCP = 0.0000E+00
HTFUSION =  LHTVAPOR = 0.1500E+06
HTREACTN =  HTPOLYMR =
TOXINHAL =  INHALCNC =
LAFETOX =  ABFLMTMP =
MOLFRAC =

NFP = 232.7  SHPSTATE=L
LDLWRBND = 283.1  LVUPRND = 313.1
BCON =  AHC =
SFINTEMP = 297.1  A =
VFUPRND = 443.1  DVCP = 0.0000E+00
HTCOMSTN =  LOFLMLIM =
INHALTME =  MOLRATIO =

CRITPRP =  CRITERP =  ARHO = 3178.  (E) BRHO = -1.000  (E)
LOVISPT = 0.1920E-02  LQVISTMP = 293.1
LVLWRBND = 278.1  LQTHRCND =
LTCLOBND =  LHCUPBND =
INTFTMP =  AVP = 9.803
AVCP = 0.7603E+05  VHCLOBND = 280.0
HTSOLUTN = -0.1040E+07
BURNRATE =
UPTOXLIM =
FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PCB  CHEMNAME = POLYCHLORINATED BIPHENYL (PCB)          PATHCODE = II
MOLEWT =          NBP =          NFP =          CRITTEMP=          CRITPRES=
DENSITY = 1300. (E) DENSTEMP= 293.2          SHPSTATE=L          ARHO = 1800. (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBND= 303.0 (E) LDLWRBND= 293.0 (E) LQVISPNT=          LOVISTMP=
AVIS =          BVIS =          LVUPRBND=          LVLWRBND=          LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LQHTCPPT=          LQHTCPTM=          AHC =          BHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTEMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMBTN=          HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETENP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PCH	CHEMNAME = POTASSIUM CHROMATE	PATHCODE = SS	
MOLECWT =	194.2	NBP =	CRITTEMP=
DENSITY =	2730.	DENSTEMP=	291.1
CRHO =		LDUPRBD=	SHSTATE=S
AVIS =		BVIS =	LDLWRBD=
LTHCNTMP=		ACON =	LVUPRBD=
LQHTCPPT=		LQHTCPTM=	BCON =
LHCLOBND=		SURFTENS=	AHC =
SOLUBPNT=	64.00	SOLUBTMP=	293.1
BVP =		CVP =	A = -38.60
BVCP =		CVCP =	VFUPRBD=
HTFUSION=		LHTVAPOR=	DVCP =
HTREACTN=		HTPOLYMR=	HTCOMBTN=
TOXINHAL=	0.1154	INHALCNC=	LOFLMLIM=
LAFETOX =		ABFLMTMP=	INHALTME=
MOLFRAC =			MOLRATIO=
			CRITPRES=
			BRHO =
			LQVISTMP=
			LQTHRCND=
			LTCLOBND=
			LHCUPBND=
			INTFTTMP=
			AVP =
			AVCP =
			VHCLOBND=
			HTSOLUTN=
			BURNRATE=
			UPTOX LIM= 0.5000E-03
			FLMETEMP=
			LOTOX LIM= 0.5000E-04
			AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PCL  CHEMNAME = PERCHLORIC ACID          PATHCODE = A  P
      MOLECW = 100.5      NBP =          CRITPRES=
      DENSITY = 1650.      (E) DENSTEMP= 298.1  CRITTEMP=
      CRHO =              LDUPRBND=          ARHO =
      AVIS =              BVIS =             LOVISPT=
      LTHCNTMP=          ACON =             LVLWRBND=
      LQHTCPPT=          LQHTCPTM=          LTCUPBND=
      LHCLOBND=          SURFTENS=          BHC =
      SOLUBPNT=          SOLUBTMP=          INTFTMP=
      BVP =              CVP =             AVP =
      BVCP =              CVCP =           AVCP =
      HTFUSION=          LHTVAPOR=          VHCLOBND=
      HTREACTN=          HTPOLYMR=          HTSOLUTN=
      TOXINHAL=          INHALCNC=          BURNRATE=
      LATETOX =          ABFLMTMP=          UPTOXLIM=
      MOLFRAC =          MOLRATIO=          FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PCM      CHEMNAME = PERCHLOROMETHYL MERCAPTAN      PATHCODE = A  O  X
MOLEWT = 185.9      NBP = 421.0      NFP =      CRITTEMP=
DENSITY = 1700.      DENSTEMP= 293.1      SHPSTATE=L      CRITPRES=
CRHO = 0.0000E+00(E) LDUPRND= 298.1      LDWRBND= 283.1      LQVISPNT=      (E) BRHO = 993.2      (E) -1.000 (E)
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQVISTMP=      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1256.      (E) LQHTCPPTM= 293.1      AHC = 1256.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 288.1      SURFTENS= 0.3502E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
BVP =      CVP =      VFUPRND=      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2200E+06(E) HTCOMBTN=      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 0.1000      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PCP  CHEMNAME = PENTACHLOROPHENOL          PATHCODE = II
MOLEWT = 266.3      NBP = 583.0      NFP = 461.0      CRITPRES=
DENSITY = 1980.      DENSTEMP= 288.2      SHPSTATE=S      CRITTEMP=
CRHO =              LDUPRBND=              BVIS =              LVUPRSND=              LQVISPNT=
AVIS =              ACCN =              LQHTCPTM=              SURFTENS=              LQTHRCND=
LTHCNTMP=              LHCLOBND=              SOLUBPNT= 0.1000 (E) SOLUBTMP= 298.2      LTCLOBND=
BVP =              CVP =              BVCV =              LHTVAPOR=              LHCUPEND=
BVCV =              CVCV =              LHTVAPOR=              HTPOLYMR=              INTFTTMP=
HTFUSION=              HTPOLYMR=              INHALCNC=              ABFLMTMP=              AVP =
HTREACTN=              TOXINHAL= 0.4200E-01              LAIETOX =              MOLFRAC =              AVCP =
VHCLOBND=              HTSOLUTN=              BURNRATE=              UPTOXLIM= 0.5000E-03
VHCUPBND=              UPFLMLIM=              LOTOXLIM= 0.5000E-04      FLMETEMP=
AIRFUEL =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PCR   CHEMNAME = POTASSIUM CHLORATE                PATHCODE = SS
MOLEWT = 122.6      NBP      =      NFP      = 633.0      CRITPRES=
DENSITY = 2340.     DENSTEMP= 293.1      SHPSTATE=S      BRHO      =
CRHO      =      LDUPRBND=      LULWRBND=      LOVISPT=      LOVISTMP=
AVIS      =      BVIS      =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC      =      BHC      =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT= 7.300     SOLUBTMP= 293.1      A      = -51.33      B      = 0.2000      AVP      =
BVP      =      CVP      =      VFUPRBND=      VPLWRBND=      AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCOMBTN=      HTDECOMP= -0.4100E+06      HTSOLUTN= 0.3430E+06
HTRACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PDC  CHEMNAME = PENTADECANOL
      MOLEWT = 228.4      NBP = 573.0      CRITTEMP = 713.0      CRITPRES =
      DENSITY = 830.0      DENSTEMP = 293.2      SHPSTATE=L      ARHO = 830.0      (E) BRHO = 0.0000E+00(E)
      CRHO = 0.0000E+00(E) LDUPRND= 333.0      (E) LDLWRND= 317.0      (E) LQVISPAT= 0.1600E-02(E) LQVISTMP= 323.0      (E)
      AVIS = -18.80      (E) BVIS = 4000.      (E) LVUPRND= 333.0      (E) LVLWRND= 323.0      (E) LQTHRCND= 0.1500      (E)
      LTHCNTMP= 323.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 333.0      (E) LTCLOBND= 323.0      (E)
      LQHTCPT= 2100.      (E) LQHTCPTM= 323.0      (E) AHC = 2100.      (E) BHC = 0.0000E+00(E) LHCUPBND= 333.0      (E)
      LHCLOBND= 323.0      (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 323.0      (E) INTFTENS= 0.3500E-01(E) INTFTTMP= 323.0      (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.829
      BVP = 1518.      CVP = -176.2      VFUPRND= 623.2      VPLWRND= 453.2      AVCP = 0.3421E+05
      BVCP = 1222.      CVCP = -0.4124      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR=          HTCONSTN= -0.4290E+08(E) HTDECOMP=          HTSOLUTN=
      HTRACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
      TOXINHAL=          INHALCNC=          INHALTIME=          LOTOXLM=          UPTOXLM=
      LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PDL  CHEMNAME = PHENYLDICHLOROARSINE. LIQUID      PATHCODE = A  O  X
MOLEWT = 222.9      NBP = 530.0      CRITPRES=
DENSITY = 1650.      DENSTEMP= 293.1      ARHO = 1943.      (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPRBN= 303.1      LQVISTMP=
AVIS =              BVIS =              LOTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1675.      (E) LQHTCPTM= 293.1      AHC = 1675.      (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.4464E-01      SFTNTMP= 291.1      INTFTENS=
SOLUBPNT=              SOLUBTMP=              A =              B =
BVP = 2672.      CVP = -0.1500      VFUPRBN= 373.1      VPLWRBN= 283.1      AVCP =
BVCP =              CVCP =              DVCP =              VHCUPBND=
HTFUSION=              LHTVAPOR= 0.2300E+06      HTCOMSTN= -0.1500E+08(E) HTDECOMP=
HTREACTN=              HTPOLYMR=              LOFLMLIM=              UPFLMLIM=
TOXINHAL=              INHALCNC=              INHALTME=              LOTOXLIM=
LATEFOX =              ABFLMTMP=              MOLRATIO=              AIRFUEL =
MOLFRAC =

```

0.3006E-04

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PDT CHEMNAME = POTASSIUM D:CHLORO-S-TRIAZINETRIONE PATHCODE = SS

MOLECW = 236.1	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 960.0	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 9.900	SOLUBTMP = 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MO_FRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PET	CHENAME = PENTAERYTHRITOL	PATHCODE = SS	
MOLECW	= 136.2	NFP = 534.0	CRITPRES =
DENSITY	= 1390.	SHSTATE = S	BRHO =
CRHO	=	LDLWRBND =	LOVISTMP =
AVIS	=	LVUPRBND =	LQTHRCND =
LTHCNTMP	=	BCON =	LTCLOBND =
LOHTCPPT	=	AHC =	LHCUPBND =
LHCLOBND	=	SFTNTMP =	INTFTTMP =
SOLUBPNT	= 7.200	A = -58.36	AVP =
BVP	=	VFUPRBND =	AVCP =
BVCP	=	DVCP =	VHCLOBND =
HTFUSION	=	HTCOMSTN = -0.2030E+08	HTSQLUTN =
HTREACTN	=	LOFLMLIM =	BURNRATE =
TOXINHAL	=	INHALTME =	LOTOXLIM = 0.1500E-01(E) UPTOXLIM =
LAETOX	=	ABFLMTMP =	FLMETEMP =
MOLFRAC	=	MOLRATIO =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PFA	CHEMNAME = PARAFORMALDEHYDE	PATHCODE = RR C	
MOLEWT =	600.0	NBP =	445.0 (E) CRITTEMP=
DENSITY =	1460.	DENSTEMP=	288.2
CRHO =		LDUPREND=	
AVIS =		BVIS =	
LTHCNTMP=		ACON =	
LQHTCPT=		LQHTCPTM=	
LHCLOBND=		SURFTENS=	
SOLUBPNT=		SOLUBTMP=	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=	5.000	INHALCNC=	
LAETOX =		ABFLTMP=	
MOLFRAC =			
		HTCOWBTN=	-0.1554E+08
		LOFLMLIM=	7.000
		INHALTME=	
		MOLRATIO=	
		HTDECOMP=	
		UPFLMLIM=	73.00
		LOTOXLIM=	0.5000E-04
		AIRFUEL =	
		HTSOLUTN=	-0.3496E+06
		BURNRATE=	
		UPTOXLIM=	0.5000E-03
		FLMETEMP=	
		CRITPRES=	
		BRHO =	
		LQVISTMP=	
		LQTHRCND=	
		LTCLOBND=	
		LHCUPBND=	
		INTFTTMP=	
		AVP =	
		AVCP =	
		VHCLOBND=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PGA  CHEMNAME = PYROGALLIC ACID          PATHCODE = SS
MOLECW = 126.0      NBP = 582.0      NFP = 404.0      CRITPRES=
DENSITY = 1450.     DENSTEMP= 293.1  SHPSRATE=S      ARHO =
CRHO =              LDUPRBND=          LVUPRBND=      LQVISTMP=
AVIS =              BVIS =              BCON =          LQTHRCND=
LTHCNTMP=           ACON =              AHC =          LTCLOBND=
LQHTCPPT=           LQHTCPTM=           SFTNTMP=        LHCUPBND=
LHCLOBND=           SURFTENS=           SOLUBTMP=        INTFTTMP=
SOLUBPNT= 60.00     SOLUBTMP= 293.1  A =              AVP =
BVP =               CVP =              VFUPRBND=        AVCP =
BVCP =              CVCP =              DVCP =          VHCLOBND=
HTFUSION=           LHTVAPOR=           HTCONSTN= -0.2120E+08 HTSOLUTN=
HTREACTN=           HTPOLYMR=           LOFLMLIM=        BURNRATE=
TOXINHAL=           INHALCNC=           INHALTWE=        UPTOXLIM= 0.5000E-02
LATETOX =           ABFLMTMP=           MOLRATIO=        FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PGC  CHEMNAME = POLYPROPYLENE GLYCOL
MOLEWT =          NBP =          PATHCODE = A  T  U  X  Y
DENSITY = 1010.    DENSTEMP= 293.1    NFP = 233.0  (E) CRITTEMP=
CRHO = 0.0000E+00(E) LDUPRBND= 303.1    SHPSTATE=L    ARHO = 1303.    (E) BRHO = -1.000  (E)
AVIS =          BVIS =          LDWRBND= 273.1    LQVISPNT=    LOVISTMP=
LTHCNTMP= 293.1    ACON = 0.1628  (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1    LQTHRCND= 0.1628  (E)
LQHTCPPT= 1884.    (E) LQHTCPTM= 293.1    AHC = 1884.    (E) BHC = 0.0000E+00(E) LHCUPBND= 303.1
LHCLOBND= 273.1    SURFTENS=          SFTNTEMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCONBTN= -0.3300E+08    HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLWLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM= 0.5000E-03(E) UPTOXLIM= 0.5000E-02(E)
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PGM  CHEMNAME = POLYPROPYLENE GLYCOL METHYL ETHER      PATHCODE = A  P  Q
MOLEWT =          NBP =          NFP =          CRITTEMP=          CRITPRES=
DENSITY =          DENSTEMP=          SHPSTATE=          ARHO =          900.0  (E)  BRHO =          0.0000E+00(E)
CRHO =          0.0000E+00(E)  LDUPRBN=          303.0  (E)  LDLWRBN=          283.0  (E)  LQVISPT=          LQVISTMP=
AVIS =          BVIS =          LVUPRBN=          LVLWRBN=          LQTHRCND=          LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBN=          LTCLOBND=          LTCLOBND=
LQHTCPPT=          2000.  (E)  LQHTCPTM=          293.0  (E)  AHC =          2000.  (E)  BHC =          0.0000E+00(E)  LHCUPBN=          303.0  (E)
LHCLOBND=          283.0  (E)  SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRBN=          VPLWRBN=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBN=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOMSTN=          -0.2870E+08(E)  HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLM=          UPFLWLM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLM=          UPTOXLM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PHG  CHEMNAME = PHOSGENE
MOLEWT = 98.92      NBP = 281.4      NFP = 147.0      CRITTEMP= 455.0      CRITPRES= 0.5670E+07
DENSITY = 1380.     DENSTEMP= 293.2    SHPSTATE=L      ARHO = 2113.     BRHO = -2.500
CRHO = 0.0000E+00   LDUPRND= 333.2    LDWRND= 273.2    LQVISPT=        LQVISTMP=
AVIS =              BVIS =              LVUPRND=        LQTHRCND=
LTHCNTMP=          ACON =              BCON =        LTCLOBND=
LQHTCPPT= 1047.     LQHTCPTM= 293.2    AHC = 1047.     BHC = 0.0000E+00  LHCUPBND= 323.2
LHCLOBND= 253.2     SURFTENS= 0.2280E-01  SFTNTMP= 273.2  INTFTMP=
SOLUBPNT=          SOLUBTMP=          A =              B = 9.636
BVP = 1303.         CVP = 0.4004E-01   VFUPRND= 373.2  VPLWRBND= 281.2  AVCP = 0.2772E+05
BVCP = 130.0        CVCV = -0.9839E-01  DVCP = 0.0000E+00  VHCUPBND= 250.0
HTFUSION= 0.5820E+05  LHTVAPOR= 0.2470E+06  HTCOMSTN=
HTREACTN= -0.2461E+07  HTPOLYMR=          LOFLMLIM=
TOXINHAL= 0.1000     INHALCNC= 1.000     INHALTME= 300.0  HTDECOHP=
LAFETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =
UPFLMLIM=
LOTOXLM=
BURNRATE=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PHH CHEMNAME = PHENYLHYDRAZINE HYDROCHLORIDE PATHCODE = SS

MOLECW = 144.6	MBP =	NFP = 516.0	CRITTEMP =
DENSITY = 1000.	(E) DENSTEMP = 293.1	SHPSRATE = S	ARHO =
CRHO =	LDUPREND =	LDLWRBND =	LOVISPT =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	AVP =
BVP =	CVP =	VFUPRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM =
LAFETOX =	ABFLWTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PHN CHEMNAME = PHENOL

PATHCODE = A P Q

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

PATHCODE = A O P Q R S Z

PATHCODE = A O P Q R S Z

MOLECWt =	57.10	=	NBP	=	339.0	=	NFP	=	CRITTEMP=	CRITPRES=
DENSITY =	802.0	=	DENSTEMP=	298.1	=	SHSTATE=L	ARHO	=	1100.	BRHO = -1.000
CRHO =	0.0000E+00	=	LDUPRBD=	323.1	=	LDLWRBND=	273.1	=	LOVISINT= 0.4200E-03	LOVISTMP= 298.1
AVIS =	-10.13	(E)	BVIS	=	700.0	(E)	LVUPRBD=	303.1	LVLWRBND= 283.1	LOTHRCND= 0.1512 (E
LTHCNTMP=	293.1	=	ACON	=	0.1512	(E)	BCON	=	0.0000E+00(E)	LTCUPBND= 283.1
LQHTCPT=	1758.	(E)	LQHTCPTM=	293.1	=	AHC	=	531.1	(E) BHC = 4.187	(E) LHCUPBND= 298.1
LHCLOBND=	283.1	=	SURFTENS=	0.2500E-01(E)	=	SFTNTEMP=	293.1	=	INTFTENS=	INTFTTMP=
SOLUBPNT=		=	SOLUBTMP=		=	A	=	B	=	AVP = 10.30
BVP =	1796.	=	CVP	=	-0.1500	=	VFUPRBD=	343.1	=	AVCP = -0.1580E+05(E
BVCP =	414.0	(E)	CVCP	=	-0.2708	(E)	DVCP	=	0.6692E-04(E)	VHCUPBND= 250.0
HTFUSION=		=	LHTVAPOR=	0.5820E+06	=	HTCOMBNTN=	-0.3600E+08(E)	=	HTDECOMP=	HTSOLUTN= -0.3300E+06
HTREACTN=		=	HTPOLYMR=	-0.1700E+07(E)	=	LOFLMLIM=		=	UPFLMLIM=	BURNRATE= 0.6847E-04
TOXINHAL=	2.000	=	INHALCNC=		=	INHALTME=		=	LOTOXLIM=	UPTOXLIM= 0.5000E-04(E
LAFETOX =		=	ABFLWTMP=		=	MOLRATIO=		=	AIRFUEL =	FLMETEMP=
MOLFRAC =		=			=			=		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PLB  CHEMNAME = POLYBUTENE                PATHCODE = A  T  U
MOLEWT = 1000.      NBP =                NFP =      CRITTEMP=      CRITPRES=
DENSITY = 810.0 (E) DENSTEMP= 288.2      SHPSTATE=L      ARHO =      850.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRND= 303.0 (E) LDLWRBND= 283.0 (E) LOVISPNT= 0.1015 (E) LOVISTMP= 311.2
AVIS =                BVIS =                LVUPRND=                LVLWRBND=                LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0 (E) LTCLOBND= 283.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 303.0 (E)
LHCLOBND= 283.0 (E) SURFTENS= 0.2500E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTMP= 293.0 (E)
SOLUBPNT=                SOLUTMP=                A =                B =                AVP = 10.24
BVP = 2940.      CVP = -0.1599      VFUPRND= 473.2      VPLWRBND=                AVCVP =
BVCP =                CVCP =                DVCP =                VHCUPBND=                VHCLOBND=
HTFUSION=                LHTVAPOR=                HTCOMSTN=                HTSOLUTN= -0.2000E+05(E)
HTREACTN=                HTPOLYMR=                LOFLMLIM=                UPFLMLIN=                BURNRATE=
TOXINHAL=                INHALCNC=                INHALTME=                LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =                ABFLMTMP=                MOLRATIO=                AIRFUEL =                FLMETEMP=
MOLFRAC =

```

MOLECWt =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY =	DENSTEMP=	293.1	293.1	DENSTEMP=
CRHO =	LDUPRBN=	LDLWRBN=	LDLWRBN=	LDLWRBN=
AVIS =	BVIS =	LVUPRBN=	LVUPRBN=	LVUPRBN=
LTHCNTMP=	ACON =	BCON =	LTCUPBN=	LTCUPBN=
LQHTCPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBN=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTMP=
SOLUBNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBN=	VPLWRBN=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN=	VHCLOBND=
HTFUSIGN=	LHTVAPOR=	HTCOMBTN=	-0.4560E+08(E)	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LARETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PLT  CHEMNAME = BETA-PROPIOLACTONE      PATHCODE = A  P  Q
MOLEWT = 72.10      NBP = 239.8      CRITTEMP=
DENSITY = 1150.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1443.      (E) BRHO = -1.000 (E)
CRHO = 0.0000E+00(E) LDUPREND= 303.1      LDLWSPND= 273.1      LQVISPNT= 0.8200E-03(E) LQVISTMP= 293.1
AVIS = -11.61 (E) BVIS = 1320.      (E) LVUPRSND= 298.1      LVLWRBND= 283.1      LQTHRCND= 0.1512 (E)
LTHCNTMP= 293.1      ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPPT= 1758.      (E) LQHTCPTM= 293.1      AHC = 531.1 (E) BHC = 4.187 (E) LHCUPBND= 298.1
LHCLOBND= 278.1      SURFTENS= 0.2200E-01(E) SFTNTMP= 293.1      INTFTENS= 0.2500E-01(E) INTFTTMP= 293.1
SOLUBPNT= 68.00      SOLUBTMP= 298.1      A = 8      B = 8.543 (E)
BVP = 1750.      (E) CVP = -0.1500 (E) VFUPRSND= 333.1      VPLWRBND= 303.1      AVCP = 0.1899E+05(E)
BVCP = 265.4 (E) CVCP = -0.1497 (E) DVCP = 0.2913E-04(E) VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.2400E+08(E) HTDECOMP=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.900      UPFLMLIM=
TOXINHAL= 0.0000E+00      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PME      CHEWNAME = PROPYLENE GLYCOL METHYL ETHER      PATHCODE = A  P  Q
MOLEWT = 90.12      NBP = 394.0      NFP =      CRITTEMP= 554.0      CRITPRES=
DENSITY = 924.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1247.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPRBND= 333.2      LDLWRBND= 283.2      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      AHC =      SFTNTMP=      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.284
BVP = 1355.      CVP = -77.16      VFUPRBND= 433.2      VPLWRBND= 293.2      AVCP = 0.3119E+05(E)
BVCP = 406.0 (E)      CVCP = -0.2010 (E)      DVCP = 0.3600E-04(E)      VHCUPBND= 600.0 (E)      VHCLOBND= 250.0 (E)
HTFUSION=      LHTVAPOR= 0.3860E+06(E)      HTCOWSTN= -0.3170E+08(E)      HTDECOMP=      HTSOLUTN= -0.2000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 100.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-02      UPTOXLIM= 0.1500E-01
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PMN  CHEMNAME = N-PROPYL MERCAPTAN      PATHCODE = A  T  U  V  W
MOLEWT = 76.20      NBP = 340.0      CRITTEMP= 530.0      (E) CRITPRES= 0.4600E+07(E)
DENSITY = 841.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 987.6      BRHO = -0.5000
CRHO = 0.0000E+00      LDUPRBN= 303.1      LDLWRBN= 273.1      LQVISPNT= 0.4000E-03      LQVISTMP= 293.1
AVIS = -10.21      (E) BVIS = 700.0      (E) LVUPRBN= 303.1      LVLWRBN= 283.1      LQTHRCND= 0.1512      (E)
LTHCNTMP= 293.1      ACON = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBN= 303.1      LTCLOBND= 283.1
LQHTCPPT= 1884.      LQHTCPTM= 288.1      AHC = 677.6      (E) SHC = 4.187      (E) LHCUPEND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2470E-01      SFTNIEMP= 293.1      INTFTENS= 0.1800E-01(E)      INTFTTMP= 293.1
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 9.820
BVP = 1637.      CVP = -0.1500      VFUPRBN= 343.1      VPLWRBN= 273.1      AVCP = 0.9282E+05
BVCP = 0.0000E+00      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBN= 400.0      VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.4160E+06      HTCOMSTN= -0.3400E+08(E)      HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLMLIN=          BURNRATE= 0.8517E-04
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIN=          UPTOXLIM= 0.5000E-03
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PNA  CHEMNAME = PROPIONIC ACID          PATHCODE = A  P  Q
MOLECW = 74.08      NBP = 414.0      NFP = 252.5      CRITTEMP= 612.0      CRITPRES= 0.5370E+07
DENSITY = 995.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1320.      BRHO = -1.100
CRHO = 0.0000E+00      LDUPRND= 333.2      LDWRBND= 273.2      LQVISPT=      LQVISTMP=
AVIS =      BVIS =      LVUPRND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2340.      LQHTCPTM= 293.2      AHC = 1504.      BHC = 2.847      LHCUPBND= 373.2
LHCLOBND= 253.2      SURFTENS= 0.2620E-01      SFTNTMP= 298.2      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 10.84
BVP = 2410.      CVP = 0.4004E-01      VFUPRND= 413.2      VPLWRBND= 273.2      AVCP = -0.1365E+05
BVCP = 441.9      CVCP = -0.3119      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION= 0.9797E+05      LHTVAPOR= 0.5778E+06      HTCOMSTN= -0.2066E+08      HTDECOP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.900      UPFLMLIM= 14.80      BURNRATE= 0.3667E-04
TOXINHAL= 10.00      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
POP      CHEMNAME = POTASSIUM PEROXIDE      PATHCODE = RR
MOLECW  = 110.0      NBP      =
DENSITY = 1000.      (E) DENSTEMP= 293.1
CRHO    =
AVIS    =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP     =
BVCP    =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

NFP      = 763.0
SHPSTATE=S
LDLWRBND=
LVUPRBND=
BCON     =
AHC      =
SFTNTEMP=
A        =
VFUPRBND=
DVCP     =
HTCOMB3TN=
LOFLW/LIM=
INHALTME=
MOLRATIO=

CRITPRES=
BRHO     =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP     =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

CRITTEMP=
ARHO     =
LOVISPT=
LVLWRBND=
LTCUPBND=
BHC      =
INTFTERS=
B        =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL  =

```

POX	CHEMNAME = PROPYLENE OXIDE	PATHCODE = A P Q R S							
	MOLECWt = 58.08	NBP = 307.5	NFP = 161.3	CRITTEMP=	482.3	CRITPRES=	0.4920E+07		
	DENSITY = 830.0	DENSTEMP= 293.2	SHPSTATE=L	ARHO =	1210.	BRHO =	-1.300		
	CRHO = 0.0000E+00	LDPREND= 313.2	LDLWRBND= 233.2	LQVISPNT=		LQVISTMP=			
	AVIS =	BVIS =	LVUPRBNd=	LVLRBND=		LQTHRCND=			
	LTHCNTMP=	ACON =	BCON =	LTCUPBND=		LTCLOBND=			
	LQHTCPT= 2160.	LQHTCPTM= 293.2	AHC = -539.9	BHC =	9.211	LHCUPBND=	353.2		
	LHCLOBND= 253.2	SURFTENS= 0.2450E-01	SFTNTEMP= 288.2	INTFTENS=		INTFTTMP=			
	SOLUBPNT= 40.50	SOLUBTMP= 293.2	A =	B =		AVP =	8.780		
	BVP = 915.3	CVP = -64.86	VFUPRBNd= 343.2	VPLWRBND=	223.2	AVCP =	-7871.		
	BVCP = 322.4	CVCP = -0.1951	DVCP = 0.4605E-04	VHCUPBND=	600.0	VHCLOBND=	250.0		
	HTFUSION=	LHTVAPOR= 0.4773E+06	HTCOMBSTN= -0.3023E+08	HTDECOMP=		HTSOLUTN=	-0.4500E+05(E		
	HTREACTN=	HTPOLYMR=	LOFLMLIM= 2.100	UPFLMLIN=	38.50	BURNRATE=	0.5500E-04		
	TOXINHAL= 100.0	INHALLCNC=	INHALTIME=	LOTOXLIM=	0.5000E-03	UPTOXLIM=	0.5000E-02		
	LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =		FLMETEMP=			
	MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

PPA  CHEMNAME = POLYPHOSPHORIC ACID          PATHCODE = A  P  O
MOLEWT =      NBP      = 823.0      CRITTEMP=
DENSITY = 2050.      DENSTEMP= 311.2      ARHO      = 2316.
CRHO      = 0.0000E+00      LDUPRBN= 373.2      LQVISPNT=
AVIS      =      BVIS      =      LVUPRBN=
LTHCNTMP=      ACON      =      LTCUPBN=
LQHTCPPT= 1243.      LQHTCPTM= 311.2      BHC      = 2.931
LHCLOBND= 311.2      SURFTENS=      SFTNTMP=
SOLUBPNT=      SOLUBTMP=      A      =
BVP      = 4942.      CVP      = 0.4004E-01      VFUPRBN= 773.2
BVCP      =      CVCP      =      DVCN      =
HTFUSION=      LHTVAPOR=      HTCOMBTN=
HTREACTN= -0.3923E+06      HTPOLYMR=      LOFLMLIM=
TOXINHAL=      INHALCNC=      INHALTME=
LATETOX  =      ABFLNTMP=      MOLRATIO=
MOLFRAC  =
CRITPRES=
BRHO      = -0.9000
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND= 473.2
INTFTTMP=
AVP      = 11.01
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PPI  CHEMNAME = POLYMETHYLENE POLYPHENYL ISOCYANATE      PATHCODE = A  0  X  Y
MOLECW = 400.0  (E) NBP = 473.0  NFP = CRITTEMP= CRITPRES=
DENSITY = 1200.  DENSTEMP= 293.1  SHPSTATE=L  ARHO = 1493.  (E) BRHO = -1.000  (E)
CRHO = 0.0000E+00(E) LDUPRBND= 303.1  LDLWRBND= 273.1  LQVISPT= 0.7990  LQVISTMP= 283.1
AVIS = -50.05  BVIS = 0.1410E+05  LVUPRBND= 288.1  LVLWRBND= 273.1  LQTHRCND= 0.1512  (E)
LTHCNTMP= 293.1  ACON = 0.1512  (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1  LTCLOBND= 283.1
LQHTCPPT= 1675.  (E) LQHTCPTM= 293.1  AHC = 1675.  (E) BHC = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1  SURFTENS= SFTNTMP= INTFTENS= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP = 3.651
BVP = 1985.  CVP = -0.1500  VFUPRBND= 373.1  VPLWRBND= 283.1  AVCP =
BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
HTFUSION= LHTVAPOR= HTCOMSTN= -0.3000E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLWLIM= UPFLWLIM= BURNRATE=
TOXINHAL= 0.2000E-01  INHALCNC= INHALTME= LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PPL  CHEMNAME = PROPYLENE      PATHCODE = A  B  C  D  E  F  G
MOLEWT = 42.08      NBP = 225.5      CRITPRES= 0.4620E+07
DENSITY = 609.0      DENSTEMP= 226.2      BRHO = -1.200
CRHO = 0.0000E+00      LDUPRND= 233.2      LQVISTMP= 226.2
AVIS = -10.78      BVIS = 445.0      LQTHRCND=
LTHCNTMP=      ACON =      LTCUPBND=
LQHTCPPT= 2805.      LQHTCPTM= 293.2      AHC = 955.7      LHCUPBND= 298.2
LHCLOBND= 213.2      SURFTENS= 0.1670E-01      SFTNTMP= 226.2      INTFTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 8.945
BVP = 785.0      CVP = -26.16      VFUPRND= 243.2      VPLWRBND= 163.2      AVCP = 0.1164E+05
BVCP = 189.9      CVCP = -0.4815E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR= 0.4354E+06      HTCOMSTN= -0.4580E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.000      UPFLMLIM= 11.10      BURNRATE= 0.1333E-03
TOXINHAL= 4000.      INHALCNC=      INHALTME=      LOTOXLIM=
LATETOX =      ABFLMTMP= 2518.      (E) MOLRATIO= 0.9167      (E) AIRFUEL = 14.68      (E) FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PPO  CHEMNAME = PHOSPHORUS OXYCHLORIDE          PATHCODE = A  O
MOLEWT = 153.3      NBP = 380.0      NFP = 274.0      CRITTEMP= 605.0      CRITPRES=
DENSITY = 1675.     DENSTEMP= 293.2      SHPSTATE=L      ARHO = 2204.     BRHO = -1.800
CRHO = 0.0000E+00    LDUPRBND= 333.2      LDLWRBND= 274.2      LQVISPNT=  LQVISTMP=
AVIS =              BVIS =              LVUPRBND=      LVLWRBND=  LQTHRCND=
LTHCNTMP=          ACON =              BCON =          LTCUPBND=  LTCLOBND=
LQHTCPPT= 1600.     (E) LQHTCPTM= 293.0     (E) AHC = 1600.     (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0   (E)
LHCLOBND= 293.0     (E) SURFTENS=          SFTNTMP=          INTFTENS=  INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =              B =          AVP = 9.853   (E)
BVP = 1842.     (E) CVP = 0.0000E+00(E) VFUPRBND= 380.0     (E) VPLWRBND= 330.0     (E) AVCP = 0.3700E+05(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 300.0     (E) VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2261E+06      HTCOMSTN=          HTSOLUTN=
HTREACTN= -0.2223E+07      HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL= 0.5000          INHALCNC=          ENHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PPP

CHEMNAME = PHOSPHORUS PENTASULFIDE

PATHCODE = RR C

MOLECWT = 222.3	NBP = 787.0	NFP = 548.0	CRITTEMP=	CRITPRES=
DENSITY = 2030.	DENSTEMP= 293.2	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBNB=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRBNB=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION= 0.1591E+06	LHTVAPOR= 0.4271E+06	HTCOWBTN= -0.2533E+08	HTDECOMP=	HTSOLUTN= -0.5000E+05(E
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIN=	BURNRATE=
TOXINHAL= 10.00	INHALCNC= 20.00	INHALTME= 300.0	LOTOXLIN=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PPR CHEMNAME = PHOSPHORUS, RED PATHCODE = II

MOLECW = 123.9	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2200.	DENSTEMP = 293.2	SHSTATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRSND =	LOVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRSND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VFUPRSND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOWSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PPT  CHEMNAME = PHOSPHORUS TRICHLORIDE          PATHCODE = A  0
MOLECWT = 137.3      NBP      = 349.0      NFP      = 161.0      CRITTEMP= 559.0      CRITPRES=
DENSITY = 1575.      DENSTEMP= 293.2      SHPSTATE=L      DRHO      = 2132.      BRHO      = -1.900
CRHO    = 0.0000E+00      LDUPREND= 323.2      LDLWRBND= 273.2      LQVISPNT=      LQVISTMP=
AVIS    =      BVIS      =      LVUPRBN=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON      =      BCON      =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 1600.      (E)      LQHTCPTM= 293.0      (E)      AHC      = 1600.      (E)      EHC      = 0.0000E+00(E)      LHCUPBND= 303.0      (E)
LHCLOBND= 283.0      (E)      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.806
BVP      = 1664.      CVP      = 0.4004E-01      VFUPRBN= 373.2      VPLWRBND= 293.2      AVCP      = 0.3700E+05(E)
BVCP    = 0.0000E+00(E)      CVCP    = 0.0000E+00(E)      DVCP    = 0.0000E+00(E)      VHCUPBND= 300.0      (E)      VHCLOBND= 300.0      (E)
HTFUSION=      LHTVAPOR= 0.2219E+06      HTCONSTN=      HTDECOMP=      HTSOLUTN=
HTREACTN= -0.2107E+07      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL= 0.5000      INHALCNC=      INHALTME=      LOTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PPW	CHEMNAME = PHOSPHORUS, WHITE	PATHCODE = II	
MOLEWT =	123.9	NBP =	552.9
DENSITY =	1820.	DENSTEMP =	293.2
CRHO =		LDUPRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.1800E-01	INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	317.3
		SHPSTATE = S	
		LDLWRBND =	
		LVUPRBND =	
		BCON =	
		AHC =	
		SFTNTMP =	
		A =	
		VFUPRBND =	
		DVCP =	
		HTCOMSTN =	
		LOFLMLIM =	
		INHALTWE =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	
		LQVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.5000E-04(E)
		UPTOXLIM =	
		AIRFUEL =	
		FLMETEMP =	
		CRITPRES =	
		BRHO =	
		LQVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PPZ CHEMNAME = PIPERAZINE

PATHCODE = A P Q

MOLEWT = 86.00	NBP = 421.0	NFP = 379.0	CRITTEMP =	CRITPRES =
DENSITY = 1100.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LQVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPTM =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 11.82
BVP = 2870.	CVP = -0.1500	VFUPRBND = 423.1	VPLWRBND = 293.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN = -0.3430E+08	HTDECOMP =	HTSOLUTN = -0.8120E+05
HTRACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTIME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATEFOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PRD  CHEMNAME = PYRIDINE
      MOLECW = 79.10      NBP = 388.5      PATHCODE = A P Q R S
      DENSITY = 983.0      DENSTEMP = 293.2      SHPSTATE=L      CRITTEMP = 620.0
      CRHO = 0.0000E+00      LDUPRND = 333.2      LCLWRND = 273.2      LQVISPT = 1273.
      AVIS =      BVIS =      LVUPRND =      BCON =      AHC = 1023.      BHC = 2.386
      LTHCNTMP =      LQHTCPTM = 293.2      SURFTENS = 0.3800E-01      SFTNTMP = 293.2      INTFTENS =
      LHCLOBND = 253.2      SOLUBTMP =      A =      VFUPRND = 423.2      VPLWRND = 285.2
      BVP = 1344.      CVP = -61.16      DVCN = 0.1005E-03      HTCOMBTN = -0.3346E+08      HTSOLUTN = -0.3000E+05(E
      BVCP = 489.9      LHTVAPOR = 0.4480E+06      HTPOLYMR =      LOFLMLIM = 1.800      UPFLMLIM = 12.40
      HTFUSION =      HTREACTN =      INHALCNC =      INHALTME =      LOTOXLIM = 0.5000E-03      BURNGATE = 0.7167E-04
      TOXINHAL = 5.000      ABFLMTMP =      MOLRATIO =      AIRFUEL =
      LATETOX =      MOLFRAC =
      CRITPRES = 0.5630E+07
      BRHO = -1.0000
      LQVISTMP =
      LQTHRCND =
      LTCLOBND =
      LHCUPBND = 373.2
      INTFTTMP =
      AVP = 9.113
      AVCP = -0.3977E+05
      VHCLOBND = 250.0
      HTSOLUTN = -0.3000E+05(E
      BURNGATE = 0.7167E-04
      UPTOXLIM = 0.5000E-02
      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PRP    CHEMNAME = PROPANE
      MOLEWT = 44.09      NBP = 231.1      CRITPRES= 0.4249E+07
      DENSITY = 590.0     DENSTEMP= 223.2   SHPSTATE=L   BRHO = -1.100
      CRHO = 0.0000E+00   LDUPRBND= 233.2   LDWLRBND= 153.2   LQVISTMP= 233.2
      AVIS = -10.75      BVIS = 525.0     LVUPRBND= 233.2   LQTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCLOBND=
      LQHTCPTM= 2973.    LQHTCPTM= 293.2   AHC = -95.88      LHCUPBND= 323.2
      LHCLOBND= 223.2    SURFTENS= 0.1600E-01   SFTNTMP= 226.2   INTFTTMP= 223.0 (E)
      SOLUBPNT=          SOLUBTMP=          A =          B =          AVP = 8.955
      BVP = 813.2        CVP = -25.16     VFUPRBND= 247.2   VPLWRBND= 123.2   AVCP = 4271.
      BVCP = 255.0       CVCP = -0.7536E-01   DVCP = 0.0000E+00   VHCUPBND= 600.0   VHCLOBND= 250.0
      HTFUSION=          LHTVAPOR= 0.4262E+06   HTCOMBTN= -0.4601E+08   HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR=          LOFLMLIM= 2.100   UPFLMLIM= 9.500   BURNRATE= 0.1367E-03
      TOXINHAL= 1000.    INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
      LAETOX =          ABFLWTMP= 2419.    (E) MOLRATIO= 0.8571   (E) AIRFUEL = 15.60   (E) FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

CHEMNAME = PENTANE

PATHCODE = A T

U
V
W

CRITPRES= 0.3370E+07

$$\text{BRHO} = -0.9500$$

LOVISTMP= 293.2

LOTHPCND= 0 1158

1 TC10BND-
JES 2

INCUBEND-
222 2

YNTETTMD- 293 0 (E)

AVG - 9 077

AVCO 0 10388

SECRET

D O C U M E N T S

UTSOLITN-

BIOMDATE- 014338

1107011 TM-

111

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTB	CHEMNAME = PENTABORANE
-----	------------------------

PATHCODE = A O T U V W

[illegible]

PTC	CHEMNAME = POTASSIUM CYANIDE	PATHCODE = SS	
MOLECW	= 65.12	NBP	= 907.7
DENSITY	= 1520.	SHSTATE	= S
CRHO	=	LDLWRBND	=
AVIS	=	LVUPRBN	=
LTHCNTMP	=	BCON	=
LQHTCPPT	=	AHC	=
LHCLOBND	=	SFTNTMP	=
SOLUBPNT	= 71.60	A	=
BVP	=	VFUPRBN	=
BVCP	=	DVCP	=
HTFUSCN	=	HTCOWSTN	=
HTREACTN	=	LOFLMLIM	=
TOXINHAL	=	INHALTME	=
LATETOX	=	ABFLMTMP	=
MOLFRAC	=		

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PTD  CHERNAME = POTASSIUM DICHROMATE          PATHCODE = SS
MOLEWT = 294.2      NBP =          NFP = 671.0      CRITTEMP=
DENSITY = 2676.      DENSTEMP= 298.2      SHPSTATE=S      CRITPRES=
CRHO =              LDUPRND=              LDWRBND=      LOVISPAI=      BRHO =
AVIS =              BVIS =              LVUPRND=      LVLWRBND=      LOVISTMP=
LTHCNTMP=          ACON =              BCON =          LTCUPBND=      LOTHRCND=
LOHTCPPT=          LOHTCPTM=          AHC =          LTCLOBND=      LTCLOBND=
LHCLOBND=          SURFTENS=          SFNTENS=          EHC =          LHCUPBND=
SOLUBPNT=          SOLUBTMP=          A = -118.3      B = 0.4500      INTFTTMP=
BVP =              CVP =              VFUPRND=          VPLWRBND=      AVP =
VCVP =              CVCP =              DVCV =          VHCUPBND=      AVCP =
HTFUSION=          LHTVAPOR=          HTCOMBNTN=      HTDECOMP=      VHCLOBND=
HTREACTN=          HTPOLYMR=          LOFLMLIM=      HTSOLUTN=      HTSOLUTN=
TOXINHAL=          INHALCNC=          INHALTME=      LOTOXLIM=      UPTOXLIM=
LALETEX =          ABFLMTMP=          MOLRATIO=      LOTOXLIM=      UPTOXLIM=
MOLFRAC =          ABFLMTMP=          MOLRATIO=      LOTOXLIM=      UPTOXLIM=

```

PTE	CHEMNAME = 1-PENTENE	PATHCODE = A T U V W											
	MOLEWT = 70.13	NBP	=	303.1	NFP	=	108.0	CRITTEMP=	464.8	CRITPRES=	0.4050E+07		
	DENSITY = 641.0	DENSTEMP=		293.2	SHPSTATE=L			ARHO	=	934.2	BRHO	=	-1.0000
	CRHO = 0.0000E+00	LDUPRBD=		298.2	LDLWRBD=		263.2	LOVISPT=		0.2000E-03	LQVISTMP=		293.2
	AVIS = -10.91	BVIS	=	700.0	LVUPRBD=		293.2	LVLWRBD=		233.2	LQTHRCND=		0.1221
	LTHCNTMP= 293.2	ACON	=	0.2648	BCON	=	-0.4885E-03	LTCUPBD=		323.2	LTCLOBND=		263.2
	LQHTCPPT= 2194.	LQHTCPTM=		293.2	AHC	=	1189.	BHC	=	3.433	LHCUPBD=		353.2
	LHCLOBND= 253.2	SURFTENS=		0.1650E-01	SFTNTMP=		293.2	INTFTENS=		0.5000E-01(E)	INTFTTMP=		293.0

SOLUBNT=	SOLUBTMP=	A	=	B	=	AVP	=	8.971	
BVP	= 1045.	CVP	= -39.66	VFUPRND=	353.2	VPLWRND=	213.2	AVCP	= 0.1009E+05
BVCP	= 372.6	CVCP	= -0.1298	DVCP	= 0.0000E+00	VHCUPRND=	000.0	VHCLOBND=	250.0
HTFUSION=	LHTVAPOR=	0.3595E+06	HTCOMBNTN=	-0.4503E+08	HTDECOMP=	HTSOLUTN=			
HTREACTN=	HTPOLYMR=		LOFLMLIM=	1.400	UPFLMLIM=	8.700	BURNRATE=	0.1517E-03	
TOXINHAL=	INHALCNC=		INHALTME=		LOTOXLIM=		UPTOXLIM=		
LAFETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=	
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTH	CHEMNAME = POTASSIUM HYDROXIDE	PATHCODE = SS	
MOLECWT =	56.11	NFP =	653.0
DENSITY =	2040.	SHPSSTATE=S	
CRHO =		LDLWRBND=	
AVIS =		LVUPRBNBND=	
LTHCNTMP=		BCON =	
LQHTCPPT=		AHC =	
LHCLOBND=		SFTNTMP=	
SOLUBPNT=		A =	-168.0
BVP =		VFUPRBNBND=	
BVCP =		DVCP =	
HTFUSION=		HTCOMSTN=	
HTREACTN=		LOFLMLIM=	
TOXINHAL=		INHALTME=	
LAETOX =		ABFLMTMP=	
MOLFRAC =		MOLRATIO=	
		CRITTEMP=	
		ARHO =	
		LQVISPNT=	
		LVLWRBND=	
		LTCUPBND=	
		BHC =	
		INTFTENS=	
		B =	0.9700
		AVP =	
		AVCP =	
		VHCLOBND=	
		HTSOLUTN=	
		BURNRATE=	
		UPTOXLIM=	
		FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
PTI  CHEMNAME = POTASSIUM IODIDE                                PATHCODE = SS
MOLECW = 166.0  NBP =  DENSTEMP = 288.2  NFP = 954.0  CRITTEMP =
DENSITY = 3130.  LDUPRND =  BVIS =  ACON =  LQTCPTM =  SURFTENS =  SOLUBTMP =  CVP =  CVCP =  LHTVAPOR =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
CRHO =  AVIS =  LTHCNTMP =  LQTCBND =  SOLUBPNT =  BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
AVIS =  LTHCNTMP =  LQTCBND =  SOLUBPNT =  BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
LTHCNTMP =  LQTCBND =  SOLUBPNT =  BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
LQTCBND =  SOLUBPNT =  BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
SOLUBPNT =  BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
BVP =  BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
BVCP =  HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
HTFUSION =  HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
HTREACTN =  TOXINHAL =  LATETOX =  MOLFRAC =
TOXINHAL =  LATETOX =  MOLFRAC =
LATETOX =  MOLFRAC =
MOLFRAC =
CRITPRES =
BRHO =
LQVISTMP =
LQTHRCND =
LTCLOBND =
LHCUPBND =
INTFTIMP =
AVP =
AVCP =
VHCLOBND =
HTSOLUTN =
BURNRATE =
UPTOXLIM = 0.5000E-02
FLMETEMP =
CRITTEMP =
ARHO =
LOVISPNT =
LVLWRBND =
LTCUPBND =
BHC =
INTFTENS =
B = 0.8200
VPLWRBND =
VHCUPBND =
HTDECOMB =
LPFLMLIM =
LOTOXLIM = 0.5000E-03
AIRFUEL =
```

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTM	CHEMNAME = POTASSIUM, METALLIC	PATHCODE = RR	
MOLEWT =	39.00	NBP =	1047.
DENSITY =	860.0	DENSTEMP =	293.1
CRHO =		LDUPRBNB =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		HTCOMSTN =	-0.4657E+07
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		HTDECOMP =	
		VPLWRBNB =	
		VHCUPBNB =	
		HTSOLUTN =	-0.4891E+07
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	
		CRITPRES =	
		BRHO =	
		LQVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBNB =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		INTFTTENS =	
		B =	
		ARHO =	
		LQVISPNT =	
		LVLWRBNB =	
		LTCUPBNB =	
		BHC =	
		INTFTENS =	
		SHPSTATE = S	
		LDLWRBNB =	
		LVUPRBNB =	
		BCON =	
		AHC =	
		SFTNTTMP =	
		A =	
		VFUPRBNB =	
		DVCP =	
		HTCOMSTN =	-0.4657E+07
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		HTDECOMP =	
		VPLWRBNB =	
		VHCUPBNB =	
		HTSOLUTN =	-0.4891E+07
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PTN  CHEMNAME = PETROLEUM NAPHTHA      PATHCODE = A  T  U  V  W
MOLEWT =      NBP      = 370.4      NFP      =      CRITTEMP=
DENSITY = 740.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1033.      BRHO      = -1.0000
CRHO      = 0.0000E+00      LDUPRBND= 303.2      (E) LVUPRBND= 313.0      (E) LVLWRBND= 283.0      (E) LQTHRCND= 0.1500
AVIS      = -18.80      (E) BVIS      = 4000.      (E) BCON      = 0.0000E+00(E) LTCUPBND= 313.0      (E) LTCLOBND= 283.0      (E)
LTHCNTMP= 293.0      (E) ACON      = 0.1500      (E) AHC      = 2000.      (E) BHC      = 0.0000E+00(E) LHCUPBND= 313.0      (E)
LQHTCPPT= 2000.      (E) LQHTCPTM= 293.0      (E) SURFTENS= 0.2100E-01(E) SFTNTMP= 293.2      INTFTENS= 0.5000E-01(E) INTFTTMP= 293.2
LHCLOBND= 283.0      (E) SOLUBPNT=      A      =      B      =      AVP      = 9.641      (E)
BVP      = 2086.      (E) CVP      = 0.0000E+00(E) VFUPRBND= 450.0      (E) VPLWRBND= 300.0      (E) AVCP      = 0.1990E+05(E)
BVCP      = 1073.      (E) CVCP      = -0.6010      (E) DVCP      = 0.0000E+00(E) VHCUPBND= 500.0      (E) VHCLOBND= 300.0      (E)
HTFUSION=      LHTVAPOR= 0.2973E+06(E) HTCOWSTN= -0.4240E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 0.9000      UPFLMLIM= 6.000      BURNRATE= 0.6667E-04
TOXINHAL=      INHALCNC= 500.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

PTO  CHEMNAME = PARATHION. LIQUID
MOLEWT = 291.3 NBP = DENSTMP = 293.1 NFP = 279.0 CRITTEMP =
DENSITY = 1270. CRHO = 0.0000E+00(E) LDUPRND = 303.1 SHPSTATE=L ARHO = 1563. (E) BRHO = -1.000 (E)
AVIS = BVIS = LVUPRND = LDUPRND = 303.1 LVLWRBND = LQVISTMP = LQTHRCND = 0.1396 (E)
LTHCNTMP = 293.1 ACON = 0.1396 (E) BCON = 0.0000E+00(E) LTCUPBND = 298.1 LTCLOBND = 288.1
LQHTCPTM = 2093. LQHTCPTM = 293.1 AHC = 2093. (E) BHC = 0.0000E+00(E) LHCUPBND = 303.1
LHCLOBND = 288.1 SURFTENS = SFTNTMP = INTFTENS = INTFTTMP =
SOLUBPNT = SOLUBTMP = A = B = AVP =
BVP = CVP = VFUPRND = VPLWRBND = AVCP =
BVCP = CVCP = DVCP = VHCUPBND = VHCLOBND =
HTFUSION = HTVAPOR = HTCOMSTN = -0.2200E+08(E) HTDECOMP = HTSOLUTN =
HTREACTN = LOPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
TOXINHAL = 0.7700E-03 INHALCNC = 0.3800E-01 INHALTME = 1800. LOTOXLIM = UPTOXLIM = 0.5000E-04(E)
LARETOX = ABFLWTMP = MOLRATIO = AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTP	CHEMNAME = POTASSIUM PERMANGANATE	PATHCODE = SS	
MOLEWT =	158.0	NFP =	513.0 (E) CRITTEMP=
DENSITY =	2700.	DENSTMP=	288.2
CRHO =		LDUPRBN=	
AVIS =		BVIS =	
LTHCNTMP=		ACON =	
LQHTCPT=		LQHTCPTM=	
LHCLOBND=		SURFTENS=	
SOLUBPNT=		SOLUBTMP=	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION=		LHTVAPOR=	
HTREACTN=		HTPOLYMR=	
TOXINHAL=		INHALCNC=	
LATEFOX =		ABFLMTMP=	
MOLFRAC =			
		CRITPRES=	
		BRHO =	
		LQVISTMP=	
		LQTHRCND=	
		LTCLOBND=	
		LHCUPBND=	
		INTFTTMP=	
		AVP =	
		AVCP =	
		VHCLOBND=	
		HTSOLUTN=	
		BURNRATE=	
		UPTOXLIM=	0.5000E-03
		FLMETEMP=	
		LOTOXLIM=	0.5000E-04
		AIRFUEL =	

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

PTS	CHEMNAME = POTASSIUM OXALATE	PATHCODE = SS	
	MOLECW = 184.2	NBP =	CRITPRES =
	DENSITY = 2130.	DENSTEMP = 291.6	BRHO =
	CRHO =	LDUPRBND =	LOVISTMP =
	AVIS =	BVIS =	LOTHRCND =
	LTHCNTMP =	ACCN =	LTCLOBND =
	LOHTCPPT =	LOHTCPTM =	LHCUPBND =
	LHCLOBND =	SURFTENS =	INTFTTMP =
	SOLUBPNT = 35.70	SOLUBTMP = 293.1	AVP =
	BVP =	CVP =	AVCP =
	BVCP =	CVCP =	VHCLOBND =
	HTFUSION =	LHTVAPOR =	HTSOLUTN =
	HTREACTN =	HTPOLYMR =	BURNRATE =
	TOXINHAL =	INHALCNC =	UPTOXLIM = 0.5000E-03
	LATETOX =	ABFLMTMP =	FLMETEMP =
	MOLFRAC =		
		CRITTEMP =	
		ARHO =	
		LOVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B = 0.5100	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOMP =	
		UPFLMLIM =	
		LOTOXLIM = 0.5000E-04	
		AIRFUEL =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
PTT  CHEMNAME = PROPYLENE TETRAMER          PATHCODE = A  T  U
MOLEWT = 168.3      NBP = 458.0      (E) NFP =      CRITTEMP=
DENSITY = 770.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO =
CRHO =      LDUPRBD=      LDWRBND=      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBD=      LVLWRBND=      LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.0 (E) LTCLOBND= 283.0 (E)
LQHTCPTM= 2000.      (E) LQHTCPTM= 293.0      (E) AHC = 2000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 313.0 (E)
LHCLOBND= 283.0      (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0      (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =      -      9.630 (E)
BVP = 2150.      (E) CVP = 0.0000E+00(E) VFUPRBD= 465.0      (E) VPLWRBND= 300.0      (E) AVCPU =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2450E+06(E) HTCOMBTN= -0.4290E+08(E) HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 200.0      INHALCNC=      INHALTME=      LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

RSC CHEMNAME = RESORCINOL

PATHCODE = SS

MOLEWT = 110.1	NBP = 550.0	NFP = 382.0	CRITTEMP =	CRITPRES =
DENSITY = 1200.	DENSTEMP = 293.1	SHPSRATE = S	ARHO =	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LOVISPT =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRBD =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 58.40	SOLUBTMP = 293.1	A = -32.48	B = 0.3100	AVP = 11.44
BVP = 3538.	CVP = -0.1500	VFUPRND = 553.1	VPLWRBD = 423.1	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN = -0.2590E+08	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLNLIM =	UPFLNLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALIME =	LOTOXLM = 0.5000E-03	UPTOXLM = 0.5000E-02
LATEOX =	ABFLTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/17/41 PAGE304 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAB CHEMNAME = SODIUM ALKYL BENZENESULFONATES

PATHCODE = SS

MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1000.	DENSTEMP= 293.2	SHPSTATE=L	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPR3ND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPR3ND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOM3TN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LA1ETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

0.5000E-02

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SAC  CHEMNAME = SULFURIC ACID, SPENT      PATHCODE = A  P
MOLEWT =          NBP =          373.0      NFP =          CRITTEMP=
DENSITY =          1390.      DENSTEMP=          293.2      SHPSTATE=L      ARHO =          1601.      BRHO =          -0.7000
CRHO =          0.0000E+00      LDUPRBND=          373.2      LDLPBND=          273.2      LQVISPNT=          LQVISTMP=
AVIS =          =          BVIS =          LVUPRBND=          BCON =          LTCUPBND=          LTCLOBND=          LQTHRCND=
LTHCNTMP=          ACON =          LOHTCPTM=          2428.      AHC =          2428.      BHC =          0.0000E+00      LHCUPBND=          313.2
LHCLOBND=          283.2      SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          =          CVP =          VFUPRBND=          VPLWRBND=          AVCP =
BVCP =          =          CVCP =          DVCP =          HTCOWBTN=          VHCLOBND=          VHCUPBND=          HTSOLUTN=          -0.9713E+06(E
HTFUSION=          LHTVAPOR=          HTDECOMP=
HTREACTN=          HTPOLYMR=          LOFLWLIM=          UPFLMLIN=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAM	CHEMNAME = SODIUM AMIDE	PATHCODE = RR	
MOLEWT =	39.01	NBP =	673.0
DENSITY =	1390.	DENSTEMP =	293.2
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =	-0.6586E+07	HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATEOX =		ABFLMTMP =	
MOLFRAC =			
		CRITTEMP =	483.0
		ARHO =	
		LOVISPT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		B =	
		VPLWRBND =	
		VHCUPBND =	
		HTDECOMP =	
		UPFLMLIM =	
		LOTOXLM =	
		AIRFUEL =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLM =	
		FLMETEMP =	

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SAS	CHEMNAME = SODIUM ALKYL SULFATES	PATHCODE = SS	
MOLECW =	NBP =	NFP =	CRITTEMP=
DENSITY =	DENSTEMP=	SHPSTATE=	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LOTHRCND=
LTHCNTMP=	ACCN =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	AVP =
BVP =	CVP =	VFUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-02
LAETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PATHCODE = SS

MOLEWT =	65.00	NBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	1850.	DENSTEMP=	293.1	SHPSATE=S	=	ARHO	BRHO =
CRHO =		LDUPREND=		LDLWRBND=		LQVISANT=	LQVISTMP=
AVIS =		BVIS	=	LVUPREND=		LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPBND=	LTCLOBND=
LQHTCPT=		LQHTCPTM=		AHC	=	BHC	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBNT=	39.00	SOLUBTMP=	273.1	A	= -10.17	B	AVP =
BVP	=	CVP	=	VFUPREND=		VPLWRBND=	AVCP =
BVCP	=	CVCP	=	DVCP	=	VHCUPBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMBTN=		HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLM=	UPTOXLM=
LATETOX =		ABFLWTMP=		MOLRATIO=		AIRFUEL	FLMETEMP=
MOLFRAC =							

SBH	CHEMNAME = SODIUM BOROXYDRIDE	PATHCODE = RR C			
	MOLECWt = 37.83	NBP =	NFP =	CRITTEMP=	CRITPRES=
	DENSITY = 1074.	DENSTEMP=	SHIPSTATE=S	ARHO =	BRHO =
	CRHO =	LDUPRBND=	LDLWRBND=	LQVISPNT=	LQVISTMP=
	AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
	LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
	LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
	LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
	SOLUBPNT=	SOLUBTMP=	A = -302.8	B =	AVP =
	BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
	BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
	HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
	HTREACTN= -0.8583E+05	HTPOLYMR=	LOFLWLIM=	UPFLMLIN=	BURNRATE=
	TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
	LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
	MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SBS CHEMNAME = SODIUM BISULFITE PATHCODE = SS

MOLECWT = 104.1	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1480.	DENSTEMP= 293.2	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LOHTCPPT=	LOHTCPTM=	AHC =	LHCUPBND=	LHCLOBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTMP=	INTFTTMP=
SOLUBPNT= 25.00	SOLUBTMP= 298.2	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBNTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LAETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SBT  CHEMNAME = SORBITOL
      MOLEWT = 182.2      NBP =      DENSTMP = 288.2      CRITPRES=
      DENSITY = 1490.      LDUPRND = 298.2      CRITTMP=      BRHO = -1.0000
      CRHO = 0.0000E+00      BVIS =      ACON =      LDWRBND = 283.2      ARHO = 1778.      LOVISTMP=
      AVIS =      LTHCNTMP=      LQHTCPTM= 390.0      (E) AHC = 3000.      (E) BHC = 0.0000E+00(E) LHCUPBND= 410.0      (E)
      LQHTCPTM= 390.0      (E) SURFTENS=      SFTNTMP=      INTFTENS=      INTFTTMP=
      LHCLOBND=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VUPRND=      VPLWRBND=      AVCVP =
      BVCP =      CVCP =      DVCVP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR=      HTCOMSTN= -0.1570E+08(E) HTDECOMP=      HTSOLUTN= -0.5000E+05(E)
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SCD CHEMNAME = SODIUM CACODYLATE PATHCODE = SS

MOLEWT = 160.0	NBP =	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 1000. (E) DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =	
CRHO =	LDUPRND =	LDLWRND =	LOVISPT =	LOVISMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 200.0	SOLUBTMP = 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSGLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-03
LARETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				0.5000E-02

F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

9 OF 10
AD-A
034 607

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SCL	CHENNAME = SULFURYL CHLORIDE	PATHCODE = A	O
MOLECWT =	135.0	NBP =	342.3
DENSITY =	1670.	DENSTEMP =	293.2
CRHO =	0.0000E+00	LDUPREND =	323.2
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =	963.0	LQHTCPTM =	293.2
LHCLOBND =	283.2	SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =	1714.	CVP =	0.4004E-01
BVCP =	164.1	CVCP =	-0.1340
HTFUSION =		LHTVAPOR =	0.2072E+06
HTREACTN =	-0.2060E+07	HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	
		SHFSTATE=L	
		LDLWREND =	273.2
		LVUPREND =	
		BCON =	
		AHC =	963.0
		SFTNTEMP =	
		A =	
		VFUPREND =	373.2
		DVCP =	0.0000E+00
		HTCOMBNTN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	2284.
		LOVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	0.0000E+00
		INTFTEMP =	
		B =	
		AVP =	10.01
		AVCP =	0.3977E+05
		VHCLOBND =	250.0
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SCN  CHEMNAME = SODIUM CYANIDE                PATHCODE = SS
MOLEWT = 49.01      NBP      =      837.0
DENSITY = 1600.     DENSTEMP= 298.2
CRHO    =           LDUPRND=
AVIS    =           BVIS    =
LTHCNTMP=           ACON    =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP     =           CVP     =
BVCP    =           CVCP    =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LAFETOX =           ABFLMTMP=
MOLFRAC =           MOLRATIO=

CRITPRES=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      = 0.9400
AVCP     =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04(E)
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SCR CHEMNAME = SODIUM DICHROMATE

PATHCODE = SS

MOLEWT = 262.0	NBP =	NFP = 630.0	CRITTEMP=	CRITPRES=
DENSITY = 2350.	DENSTEMP= 298.2	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A = -92.47	B = 0.9400	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

SCY  CHEMNAME = SODIUM THIOCYANATE          PATHCODE = SS
MOLEWT = 81.08      NBP =      573.0      CRITPRES=
DENSITY = 1000.      (E) DENSTEMP= 293.1      BRHO =
CRHO =      LDUPRBD=      BVIS =      LOVISPT=
AVIS =      LVUPRBD=      BCON =      LVLWRBD=
LTHCNTMP=      ACON =      LQHTCPTM=      LTCLOBND=
LQHTCPTM=      SURFTENS=      AHC =      LHCUPBND=
LHCLOBND=      SFTNTEMP=      INTFTTMP=
SOLUBPNT= 165.6      SOLUBTMP= 293.1      B = 5.690      AVP =
BVP =      CVP =      VFUPRBD=      VPLWRBD=
BVCP =      CVCP =      DVCP =      VHCUPBND=
HTFUSION=      LHTVAPOR=      HTCOM:STN=      HTSOLUTN= 0.8120E+05
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIN=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SDA  CHEMNAME = SODIUM ARSENATE                PATHCODE = SS
MOLECWT = 312.0      NBP      = 453.0      NFP      = 330.0      CRITTEMP=
DENSITY = 1870.      DENSTEMP= 293.1      SHPSTATE=S      ARHO      =
CRHO      =          LDUPRND=          LDWRSND=          LOVISAT=
AVIS      =          BVIS      =          LVUPRND=          LVLWRBND=
LTHCNTMP=          ACON      =          BCON      =          LTCUPBND=
LQHTCPPT=          LQHTCPTM=          AHC      =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=
SOLUBPNT= 159.7      SOLUBTMP= 288.1      A      =          B      =
BVP      =          CVP      =          VFUPRND=          VPLWRBND=
BVCP      =          CVCP      =          DVCP      =          VHCUPBND=
HTFUSION=          LHTVAPOR=          HTCOLISTN=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=
TOXINHAL= 0.3600E-01      INHALCNC=          INHALTME=          LOTOXLIM=
LATETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =
MOLFRAC =
CRITPRES=
BRHO      =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP      =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04/E
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDB CHEMNAME = SODIUM BORATE

PATHCODE = SS

MOLECWT = 201.3	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2367.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRBND=	LOVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 2.720	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN= -0.2100E+06
HTREACTN=	HTPOLYMR=	LOFLWLM=	UPFLWLM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDC CHEMNAME = SODIUM CHLORATE PATHCODE = SS

MOLECW = 106.5	NBP =	NFP = S21.0	CRITPRES =
DENSITY = 2490.	DENSTEMP = 288.2	SHPSSTATE = S	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISTMP =
AVIS =	BVIS =	LVUPRBN =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPEND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A = -221.5	AVP = 1.100
BVP =	CVP =	VFUPRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION = 0.2052E+06	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-03
LAJETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDF CHEMNAME = SODIUM FLUORIDE

PATHCODE = SS

MOLECW = 41.99	NBP =	NFP =	CRITEMP =	CRITPRES =
DENSITY = 2790.	DENSTEMP = 293.2	SHPS:ATE = S	ARHO =	BRHO =
CRHC =	LDUPRND =	LDLWRND =	LQVSPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LVLWRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A = -1.803	B = 0.2000E-01	AVP =
BVP =	CVP =	VFUPRND =	VPLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCONSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDH	CHEMNAME = SODIUM HYDRIDE	PATHCODE = RR	
MOLEWT =	24.00	NFP =	CRITPRES=
DENSITY =		SHSTATE=	BRHO =
CRHO =		LDLWRBND=	LQVISTMP=
AVIS =		LVUPRBND=	LOTHRCND=
LTHCNTMP=		BCON =	LTCLOBND=
LQHTCPPT=		AHC =	LHCUPBND=
LHCLOBND=		SFTNTEMP=	INTFTTMP=
SOLUBPNT=		A =	AVP =
BVP =		VFUPRBND=	AVCP =
BVCP =		DVCP =	VHCLOBND=
HTFUSION=		HTCOMBTN=	HTSOLUTN=
HTREACTN=	-5443.	LOFLMLIM=	BURNRATE=
TOXINHAL=		INHALTME=	UPTOXLIM=
LATETOX =		ABFLMTMP=	FLMETEMP=
MOLFRAC =		MOLRATIO=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDS CHEMNAME = SODIUM SULFIDE PATHCODE = SS

MOLEWT = 78.04	NBP =	NFP =	CRITPRES=
DENSITY = 1856.	DENSTEMP= 293.2	SHPSTATE=S	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQTCPTP=	LQTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A = -88.74	AVP =
BVP =	CVP =	VFUPRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDT CHEMNAME = SODIUM DICHLORO-S-TRIAZINETRIONE PATHCODE = SS

MOLEWT = 220.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 960.0	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LOVISPNT=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 33.00	SOLUBTMP= 298.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMB3TN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/07 PAGE326/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SDU	CHEMNAME = SODIUM	PATHCODE = RR C		
MOLECWT =	22.49	NBP =	1156.	
DENSITY =	971.0	DENSTEMP =	293.2	
CRHO =		LDUPRND =		
AVIS =		BVIS =		
LTHCNTMP =		ACON =		
LOHTCPPT =		LOHTCPTM =		
LHCLOBND =		SURFTENS =		
SOLUBPNT =		SOLUBTMP =		
BVP =		CVP =		
BVCP =		CVCP =		
HTFUSION =		LHTVAPOR =		
HTREACTN =	-0.6134E+07	HTPOLYMR =		
TOXINHAL =		INHALCNC =		
LATETOX =		ABFLMTMP =		
MOLFRAC =				
		NFP =	370.7	
		SHSTATE = S		
		LDLWRBND =		
		LVUPRND =		
		RCON =		
		AHC =		
		SFTNTMP =		
		A =		
		VFUPRND =		
		DVCP =		
		HTCOMSTN =		
		LOFLMLIM =		
		INHALTME =		
		MOLRATIO =		
		CRITTEMP =	2273.	
		ARHO =		
		LOVISPT =		
		LVLWRBND =		
		LTCUPBND =		
		BHC =		
		INTFTENS =		
		B =		
		VPLWRBND =		
		VHCUPBND =		
		HTSOLUTN =		
		BURNRATE =		
		UPTOXLIM =		
		AIRFUEL =		
		CRITPRES =		0.3480E+08
		BRHO =		
		LOVISTMP =		
		LOTHRCND =		
		LTCLOBND =		
		LHCUPBND =		
		INTFTTMP =		
		AVP =		
		AVCP =		
		VHCLOBND =		
		FLMETEMP =		

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/08 PAGE327 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFA	CHENAME = SULFURIC ACID	PATHCODE = A	P	O		
MOLEWT =	98.08	NBP =	613.0	CRITTEMP =		
DENSITY =	1840.	DENSTEMP =	293.2	ARMO =	2123.	
CRHO =	0.0000E+00	LDUPRBD =	323.2	LOVISINT =	LOVISIMP =	
AVIS =		BVIS =		LVLARBND =	LOTHRCND =	
LTHCNTMP =		ACON =		LTCUPBND =	LTCLOBND =	
LOHTCPPT =	1398.	LOHTCPTM =	293.2	BMC =	LMCUPBND =	323.2
LHCLOBND =	273.2	SURFTENS =		SFTNTEMP =	INTFTTMP =	
SOLUBPNT =		SOLUBTMP =		A =	AVP =	
BVP =		CVP =		VFLARBND =	AVCP =	
BVCP =		CVCP =		DVCP =	VHCLOBND =	
HTFUSION =		LHTVAPOR =		HTCONBTN =	HTSOLUTN =	-0.9713E+06
HTREACTN =		HTPOLYMR =		LOFLVLIM =	BURNRATE =	
TOXINHAL =	0.2285	INHALCNC =	2.285	INHALTME =	UPTOXLIM =	
LAETOX =		ABFLWTMP =		MOLRATIO =	FLMETEMP =	
MOLFRAC =						

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SFD  CHEMNAME = SULFUR DIOXIDE
      MOLEWT = 64.06      NBP = 263.2      NFP = 197.7      CRITTEMP= 430.0      CRITPRES= 0.7870E+07
      DENSITY = 1450.      DENSTEMP= 263.2      SHPSSTATE=L      ARHO = 2086.      BRHO = -2.400
      CRHO = 0.0000E+00      LDUPRBD= 303.2      LDLWRBD= 223.2      LQVISPAT=      LQVISTMP=
      AVIS =      BVIS =      LVUPRBD=      LVLWRBD=      LQTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPEND=      LTCLOBND=
      LQHTCPT= 1415.      LOHTCPTM= 293.2      AHC = 187.7      BHC = 4.187      LHCUPBND= 373.2
      LHCLOBND= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
      SOLUBPNT= 10.00      SOLUBTMP= 293.2      A =      B =      AVP = 9.407
      BVP = 999.9      CVP = -35.96      VFUPRBD= 293.2      VPLWRBD= 195.2      AVCP = 0.2692E+05
      BVCP = 49.82      CVCP = -0.2093E-01      DVCP = 0.0000E+00      VHCUPEND= 600.0      VHCLOBND= 250.0
      HTFUSION=      LHTVAPOR= 0.3969E+06      HTCOMSTN=      HTSOLUTN= -0.2190E+06
      HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
      TOXINHAL= 5.000      INHALCNC= 20.00      INHALTME= 300.0      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SFL CHEMNAME = SULFOLANE

PATHCODE = A P Q

MOLECW = 120.2	NBP = 558.0	NFP = 299.0	CRITTEMP =	CRITPRES =
DENSITY = 1260.	DENSTEMP = 303.2	SHPSSTATE=L	ARHO = 1379.	BRHO = -0.4000
CRHO = 0.0000E+00	LDUPREND = 333.2	LDLWRBND = 300.2	LQVISPT =	LQVISIMP =
AVIS =	BVIS =	LVUPREND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT = 1465.	LQHTCPTM = 293.2	AHC = 737.3	BHC = 2.512	LHCUPBND = 473.2
LHCLOBND = 273.2	SURFTENS =	SFTNTEMP =	INTFTERS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP = 10.52
BVP = 3063.	CVP = 0.4004E-01	VFUPREND = 523.2	VPLWRBND = 373.2	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION = 0.1130E+05	LHTVAPOR =	HTCONSTN = -0.2200E+08(E)	HTDECOMP =	HTSOLUTN = -0.5000E+05(E)
HTREACTN =	HTPOLYMR =	LOFLVLIM =	UPFLMLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIN = 0.5000E-03	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLWTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SFM  CHEMNAME = SULFUR MONOCHLORIDE          PATHCODE = A  0

MOLECW = 135.0      NBP = 411.0      NFP = 193.0      CRITTEMP=
DENSITY = 1680.     DENSTEMP= 293.2  SHPSTATE=L      ARHO = 2147.  BRHO = -1.600
CRHO = 0.0000E+00   LDUPREND= 323.2  LDWRBND= 273.2  LOVISPAT=  LOVISTMP=
AVIS =              BVIS =              LVUPRND=      LQTHRCND=
LTHCNTMP=          ACON =              BCON =          LTCLOBND=
LOHTCPPT= 921.1     LOHTCPTM= 293.2  AHC = 921.1     EHC = 0.0000E+00  LHCUPBND= 343.2
LHCLOBND= 273.2     SURFTENS=          SFTNTMP=      INTFTIMP=
SOLUBPAT=          SOLUBTMP=          A =              B =          AVP = 9.580
BVP = 1880.         CVP = 0.4004E-01  VFUPRND= 413.2  VPLWRBND= 273.2  AVCP = 0.5012E+05
BVCP = 103.8        CVCP = -0.9211E-01  DVCP = 0.0000E+00  VHCUPBND= 575.0  VHCLOBND= 250.0
HTFUSION=          LHTVAPOR= 0.2671E+06  HTCOMSTN=      HTSOLUTN=
HTREACTN= -0.1168E+07  HTPOLYMR=          LOFLWLIM=      BURNRATE=
TOXINHAL= 1.000      INHALCNC=          INHALTME=      LOTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=      AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SFR  CHEMNAME = SODIUM SILICOFLUORIDE                PATHCODE = II
MOLEWT = 188.0      NBP =                               NFP =
DENSITY = 2680.      DENSTEMP= 293.1      SHPSTATE=S
CRHO =              LOUPRBND=                  LDLWRBND=
AVIS =              BVIS =                    LVUPRBND=
LTHCNTMP=           ACON =                    LTCLOBND=
LOHTCPPT=           LOHTCPTM=                 BHC =
LHCLOBND=           SURFTENS=                 INTFTENS=
SOLUBPNT= 0.6400    SOLUBTMP= 293.1      A = -2.878      B = 0.1200E-01
BVP =              CVP =                      VFUPRBND=
BVCP =             CVCP =                    DVCP =
HTFUSION=          LHTVAPOR=                 HTCOMBNTN=
HTREACTN=          HTPOLYMR=                 LOFLMLIM=
TOXINHAL= 0.3000    INHALCNC=                 INHALTME=
LAFETOX =          ABFLMTMP=                 MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SHC  CHEMNAME = SODIUM HYPOCHLORITE          PATHCODE = A  P
MOLEWT = 74.44      NBP =                      NFP =          CRITPRES=
DENSITY = 1060.      DENSTEMP= 293.2          SHPSTATE=L      ARHO = 1060.      (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBND= 298.0      (E) LDWRBND= 278.0      (E) LQVISPT= LQVISTMP=
AVIS =              BVIS =                  LVUPRBND=          LVLWRBND= LQTHRCND=
LTHCNTMP=          ACON =                  BCON =          LTCUPBND= LTCLOBND=
LQHTCPT= 3800.      (E) LQHTCPTM= 293.0      (E) AHC = 3800.      (E) BHC = 0.0000E+00(E) LHCUPBND= 298.0      (E)
LHCLOBND= 278.0      (E) SURFTENS=          SFTINTMP=          INTFTENS= INTFTTMP=
SOLUBPNT=          SOLUBTMP=              A =              E =          AVP =
BVP =              CVP =                  VFUPRBND=          VPLWRBND= AVCP =
BVCP =              CVCP =                  DVCP =              VHCUPBND= VHCLOBND=
HTFUSION=          LHTVAPOR=              HTCOMSTN=          HTDECOMP= HTSOLUTN= -0.2000E+06(E)
HTREACTN=          HTPOLYMR=              LOFLMLIM=          UPFLMLIM= BURNRATE=
TOXINHAL=          INHALCNC=              INHALTME=          LOTOXLM= UPTOXLM=
LATETOX =          ABFLMTMP=              MOLRATIO=          AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SHD  CHEMNAME = SODIUM HYDROXIDE          PATHCODE = SS
MOLECW = 40.00  NBP = 591.0
DENSITY = 2130.  DENSITY = 293.2
CRHO =  LDWRBND=
AVIS =  BVIS =  LVUPRBN=
LTHCNTMP=  ACON =  BCON =  AHC =  SFTNTMP=
LHCLOBND=  LQHTCPTM=  SURFTENS=
SOLUBPNT=  SOLUBTMP=  A =  -657.3
BVP =  CVP =  VFUPRBN=
BVCP =  CVCP =  DVCP =
HTFUSION=  LHTVAPOR=  HTCOMSTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM=
TOXINHAL=  INHALCNC=  INHALTIME=
LATETOX =  ABFLMTMP=  MOLRATIO=
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP = 2.560
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM=
FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SHS	CHEMNAME = SODIUM HYDROSULFIDE SOLUTION	PATHCODE = A	P
MOLECWT =	NBP = 373.0	(E) NFP = 290.0	(E) CRITTEMP=
DENSITY = 1300.	DENSTEMP= 268.1	SHRSTATE=L	ARHO = 1593.
CRHO = 0.0000E+00(E)	LDUPREND= 303.1	LDLWRBND= 293.1	(E) BRHO = -1.000 (E)
AVIS =	BVIS =	LVUPRBND=	LQVISTMP=
LTHCNTMP=	ACON =	BCON =	LQTHRCND=
LQHTCPPT=	LQHTCPTM=	AHC =	LTCLOBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	LHCUPBND=
SOLUBPNT=	SOLUBTMP=	A =	INTFTIMP=
BVP =	CVP =	VFUPRSND=	AVP =
BVCP =	CVCP =	DVCP =	AVCP =
HTFUSION=	LHTVAPOR=	HTCOMBTN=	VHCLOBND=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	HTSOLUTN=
TOXINHAL=	INHALCNC=	INHALTME=	BURNRATE=
LAFETOX =	ABFLMTMP=	MOLRATIO=	UPTOXLIM= 0.5000E-03
MOLFRAC =			FLMETEMP=

PATHCODE = 11

$$NFP = 430.0$$

SHPS RATE=S

BVIS =

ACON =

LQHTCPTM=

SURFTENS=

298.1

$$CVP =$$

CVC P =

LHTVAPOR=

HTPOLYMR=

INHALCNC=

ABFLMTP=

CRITTEVD=

ARHO =

LQVISPNT=

LV LWR BIND=

LTCUPBND=

$$\frac{CH}{H}$$

INTFTENS=

0.0000E+00

VPLWRBND=

VHCUPB1.D=

HTDECOMP=

UPFLMLIM=

LOTOXLIM=

AIRFUEL =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SLD  CHEMNAME = SELENIUM DIOXIDE          PATHCODE = SS
MOLECW = 111.0      NBP = 583.0      NFP =
DENSITY = 3950.     DENSTEMP = 293.1  SHPSTATE=S
CRHO =              LDUPRBND=
AVIS =              BVIS =
LTHCNTMP=          ACON =
LQHTCPPT=          LQHTCPTM=
LHCLOBND=          SURFTENS=
SOLUBPNT= 263.0     SOLUBTMP= 295.1   A = -651.8      B = 3.100      AVP = 5.244
BVP = 694.0         CVP = -0.1500     VFUPRSND= 454.1  VPLWRBND= 343.1  AVCP =
BVCP =              CVCP =
HTFUSION=          LHTVAPOR=
HTREACTN=          HTPOLYMR=
TOXINHAL= 0.4000E-01 INHALCNC= 0.6000E-01 INHALTME= 1800.
LATETOX =          ABFLMTMP=
MOLFRAC =          MOLRATIO=
CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP = 5.244
AVCP =
VHCLOBND=
HTSOLUTN= 0.2800E+05
BURNRATE=
UPTOXLIM=
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B = 3.100
VPLWRBND= 343.1
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIN=
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SML CHEMNAME = SODIUM METHYLATE			PATHCODE = SS	
MOLEWT =	54.00	NBP =	NFP =	CRITTEMP=
DENSITY =	1000.	(E) DENSTEMP=	293.1	SHPSSTATE=S
CRHO =		LDUPRND=	LDLWRND=	LOVISPT=
AVIS =		BVIS =	LVUPRND=	LVLWRND=
LTHCNTMP=		ACON =	BCON =	LTCUPBND=
LQHTCPPT=		LQHTCPTM=	AHC =	BHC =
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=
SOLUBPNT=		SOLUBTMP=	A =	B =
BVP =		CVP =	VFUPRND=	VPLWRND=
BVCP =		CVCP =	DVCP =	VHCUPBND=
HTFUSION=		LHTVAPOR=	HTCOMSTN=	HTDECOMP=
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=
TOXINHAL=		INHALCNC=	INHALTME=	LOTOX LIM=
LATETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =
MOLFRAC =				
				CRITPRES=
				BRHO =
				LOVISTMP=
				LQTHRCND=
				LTCLOBND=
				LHCUPBND=
				INTFTTMP=
				AVP =
				AVCP =
				VHCLOBND=
				HTSOLUTN=
				BURNRATE=
				UPTOX LIM=
				FLMETEMP=

PATHCODE = II SS

252

SHPS1ATE=S

LDLW2BND=

LVUPPSND=

BCON =

$$\Delta HC =$$

SFTNTEMP=

A
=

VFUPRND=

DVC P =

HTCOM:9TN=

LOFLMLIM=

INHALTME=

MOLRATIO=

CRITPRES=

BRHO
=

LOVISTMP=

LOTHRCND=

LTCLOBND=

LHCUPBND=

INTFTMP=

App =

AVCP =

VHCLOBND=

HTSOLUTN=

BURNRATE=

UPTOXLIM=

TIMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SPP	CHEMNAME = SODIUM PHOSPHATE	PATHCODE = SS
MOLEWT =	NBP =	NFP =
DENSITY = 2150.	(E) DENSTEMP= 298.1	SHPSTATE=S
CRHO =	LDUPRBND=	LDLWRBND=
AVIS =	BVIS =	LVUPRBND=
LTHCNTMP=	ACON =	BCON =
LQHTCPT=	LQHTCPTM=	AHC =
LHCLOBND=	SURFTENS=	SFTNTENS=
SOLUBPNT= 50.00	(E) SOLUBTMP= 298.1	A =
BVP =	CVP =	VFUPRBND=
BVCP =	CVCP =	DVCP =
HTFUSION=	LHTVAPOR=	HTCOM:BTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=
TOXINHAL=	INHALCNC=	INHALTME=
LAFETOX =	ABFLMTMP=	MOLRATIO=
MOLFRAC =		
		CRITTEMP=
		ARHO =
		LOVISPT=
		LVLWRBND=
		LQTHRCND=
		LTCLOBND=
		LHCUPBND=
		INTFTTMP=
		AVP =
		AVCP =
		VHCLOBND=
		HTSOLUTN=
		BURNRATE=
		UPTOXLIM=
		FLMETEMP=

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/18/30 PAGE342 A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SRA	CHEMNAME = STEARIC ACID		PATHCODE = II		
MOLECW	=	282.0	(E) NBP	=	NFP = 343.0
DENSITY	=	860.0	DENSTEMP	=	293.1
CRHO	=		LDUPRBD	=	LDLWRBND
AVIS	=		BVIS	=	LVUPRBD
LTHCNTMP	=		ACCN	=	BCON
LQHTCPPT	=		LQHTCPTM	=	AHC
LHCLOBND	=		SURFTENS	=	SFTNTMP
SOLUBPNT	=		SOLUBTMP	=	A
BVP	=		CVP	=	VFUPRBD
BVCP	=		CVCP	=	DVCP
HTFUSION	=		LHTVAPOR	=	HTCO*BTN = -0.4023E+08
HTREACTN	=		HTPOLYMR	=	LOFLMLIM
TOXINHAL	=		INHALCNC	=	INHALTME
LATETOX	=		ABFLMTMP	=	MOLRATIO
MOLFRAC	=				
					CRITPRES =
					BRHO =
					LOVISTMP =
					LQTHRCND =
					LTCLOBND =
					LHCUPBND =
					INTFTTMP =
					AVP =
					AVCP =
					VHCLOBND =
					HTSOLUTN =
					BURNRATE =
					UPTOXLIM = 0.1500E-01(E)
					FLMETEMP =
					AIRFUEL =

PATHCODE = SS

MOLEWT =	342.3	MBP	=	NFP	=	446.0	(E)	CRITTEMP=	CRITPRES=
DENSITY =	1590.	DENSTEMP=	293.1	SHPSSTATE=S	=	ARHO	=	BRHO	=
CRHO	=	LDUPRBD=		LDLWRBD=		LOVISPT=		LQVISTMP=	
AVIS	=	BVIS	=	LVUPRBD=		LVLWRBD=		LQTHRCND=	
LTHCTMP=		ACON	=	BCON	=	LTCUPBD=		LTCLOBND=	
LQHTCPT=		LQHTCPTM=		AHC	=	BHC	=	LHCUPBND=	
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTENS=		INTFTTMP=	
SOLUBPNT=	204.0	SOLUBTMP=	293.1	A	=	-162.4	B	AVP	=
BVP	=	CVP	=	VFUPRBD=		VPLWRBD=		AVCP	=
BVCP	=	CVCP	=	DVCP	=	VHCUPBD=		VHCLOBND=	
HTFUSION=		LHTVAPOR=		HTCOMSTN=	-0.2230E+08(E)	HTDECOMP=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=		BURNRATE=	
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.1500E-01(E)	UPTOXLIM=	
LATETOX	=	ABFLMTMP=		MOLRATIO=		AIRFUEL	=	FLMETEMP=	
MOLFRAC	=								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SSC	CHEMNAME = SODIUM SILICATE		PATHCODE = A P		
MOLEWT =	NBP =	NFP =	CRITTEMP=	CRITPRES=	
DENSITY = 1100.	(E) DENTEMP= 293.2	SHPSSTATE=L	ARHO = 1300.	(E) BRHO =	0.0000E+00(E
CRHO = 0.0000E+00(E)	LDUPRBND= 303.0	(E) LDLWRBND= 278.0	(E) LQVISPNT=	LQVISTMP=	
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=	
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=	
LQHTCPPT= 2931.	(E) LQHTCPTM= 298.2	AHC = 2931.	(E) BHC =	LHCUPBND=	303.2
LHCLOBND= 283.2	SURFTENS=	SFTNIEMP=	INTFTENS=	INTFTTMP=	
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=	-0.4000E+05(E
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=	0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SSF CHEMNAME = SODIUM SULFITE

PATHCODE = SS

MOLEWT = 126.0	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 2633.	DENSTEMP= 288.2	SHPSRATE=S	ARHO =	BRHO =
CRHO =	LDUPRBNB=	LDLWRBND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBNB=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTINTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A = -183.4	B = 0.7200	AVP =
BVP =	CVP =	VFUPRBNB=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBNTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-03
LARETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
STC      CHEMNAME = SILICON TETRACHLORIDE      PATHCODE = A  0
MOLEWT = 169.9      NBP = 330.8
DENSITY = 1480.      DENSTEMP= 293.1      SHPSTATE=L
CRHO = 0.0000E+00    LDUPREND= 313.1      LDLWRBND= 273.1      LQVISPT= 0.5100E-03      CRITPRES= 0.3740E+07
AVIS = -9.581        BVIS = 575.0          LVUPRBND= 313.1      LVLWRBND= 258.1      LQTHRCND= 0.1047      (E
LTHCNTMP= 293.1      ACON = 0.1047      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 795.5      LQHTCPTM= 293.1      AHC = 795.5      BHC = 0.0000E+00      LHCUPBND= 313.1
LHCLOBND= 273.1      SURFTENS= 0.1960E-01      SFTNTMP= 293.1      INTFTENS= 0.0000E+00      INTFTTMP=
SOLUBPNT=            SOLUBTMP=            A =            B =            AVP = 9.704
BVP = 1554.          CVP = -0.1500          VFUPRBND= 333.1      VPLWRBND= 263.1      AVCP =
BVCP =              CVCP =              DVCP =            VHCUPBND=            VHCLOBND=
HTFUSIGN=            LHTVAPOR= 0.1730E+06      HTC.WSTN=            HTSOLUTN= -0.1730E+07
HTREACTN=            HTPOLYMR=            LOFLMLIM=            UPFLMLIN=            BURNRATE=
TOXINHAL=            INHALCNC=            INHALTME=            LOTOXLIM=            UPTOXLIM= 0.5000E-04(E
LATETOX =            ABFLMTMP=            MOLRATIO=            AIRFUEL =            FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

STO	CHEMNAME = SELENIUM TRIOXIDE	PATHCODE = RR	
MOLECF =	126.9	NBP =	391.0
DENSITY =	3600.	DENSTMP =	293.1
CFHO =		LDLWRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =	0.3500E-01	INHALCNC =	0.5300E-01
LAETOX =		ABFLMTMP =	
MOLFRAC =		MOLRATIO =	
		INHALTME =	1800.
		LOFLNLIM =	
		HTCOMSTN =	
		DVCP =	
		VFUPRND =	
		A =	
		SFTNTMP =	
		AHC =	
		BCON =	
		LVUPRND =	
		LDLWRBND =	
		ARHO =	
		CRITTEMP =	
		CRITPRES =	
		BRHO =	
		LOVISTMP =	
		LOTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMP =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	
		FLMETEMP =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
STY  CHEMNAME = STYRENE
*****
      PATHCODE = A  T  U  Z
MOLECWT = 104.2      NBP      = 418.4      NFP      = 242.6      CRITTEMP= 646.0      CRITPRES= 0.4000E+07
DENSITY = 906.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO      = 1170.      BRHO      = -0.9000
CRHO      = 0.0000E+00      LDUPRND= 373.2      LDWRBND= 273.2      LQVISPT= 0.7500E-03      LQVISTMP= 293.2
AVIS      = -11.32      BVIS      = 1210.      LVUPRND= 373.2      LVLWRBND= 273.2      LQTHRCND= 0.1465
LTHCNTMP= 293.2      ACON      = 0.2488      BCON      = -0.3489E-03      LTCUPBND= 323.2      LTCLOBND= 263.2
LQHTCPPT= 1742.      LQHTCPTM= 293.2      AHC      = 882.5      BHC      = 2.931      LHCUPBND= 323.2
LHCLOBND= 253.2      SURFTENS= 0.3214E-01      SFTNTMP= 292.2      INTFTENS= 0.3548E-01      INTFTTMP= 292.2
SOLUBPNT= 0.3000      SOLUBTMP= 293.2      A      = 293.2      B      = 9.404      AVP      = 9.404
BVP      = 1650.      CVP      = -43.16      VEUPRND= 418.2      VPLWRBND= 273.2      AVCP      = -0.2370E+05
BVCP      = 573.4      CVCP      = -0.2826      DVCP      = 0.0000E+00      VHCUPBND= 600.0      VHCLUBND= 250.0
HTFUSION= 0.1059E+06      LHTVAPOR= 0.3634E+06      HTCOWSTN= 1.100      HTSOLUTN= 0.8667E-04
HTREACTN= 100.0      HTPOLYMR= -0.6448E+06      LOFLWLIM= 1800.      UPFLMLIM= 0.5000E-03
TOXINHAL= 100.0      INHALCNC= 100.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03
LAFETOX = 100.0      ABFLMTMP= 1800.      AIRFUEL = 0.5000E-03
MOLFRAC = 100.0      MOLRATIO= 1800.      FLMETEMP= 1800.
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVA	CHEMNAME = SILVER ACETATE	PATHCODE = II SS	
MOLECW	= 166.9	NBP	=
DENSITY	= 3260.	DENSTMP	= 293.1
CRHO	=	LDUPRND	=
AVIS	=	DVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	= 1.000	SOLUBTMP	= 293.1
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.1300E-02	INHALCNC	=
LAETOX	=	ABFLMTMP	=
MOLFRAC	=		
		NFP	=
		SHPSTATE	= S
		LDLWRND	=
		LVUPRND	=
		BCON	=
		AHC	=
		SFTNTMP	=
		A	= -3.104
		VFUPRND	=
		DVCP	=
		HTCOMSTN	=
		LOFLMLIM	=
		INHALTME	=
		MOLRATIO	=
		CRITTEMP	=
		ARHO	=
		LQVISPT	=
		LVLWRBND	=
		LTCUPBND	=
		BHC	=
		INTFTENS	=
		B	= 0.1400E-01
		VPLWRBND	=
		VHCUPBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		AIRFUEL	=
		CRITPRES	=
		BRHO	=
		LQVISTMP	=
		LQTHRCND	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	=
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		FLMETEMP	=

PATHCODE = 11

MOLEWT =	275.7	NBP =	NFP =	CRITTEMP=	CRITPRES=			
DENSITY =	6100.	DENSTEMP=	293.1	SHPSTATE=S	BRHO =			
CRHO =		LDUPRBD=	LDLWRSD=	LQVISPT=	LQVISTMP=			
AVIS =		BVIS =	LVUPRSD=	LVLWRBD=	LOTHRCND=			
LTHCNTMP=		ACON =	BCON =	LTCUPBD=	LTCLOBND=			
LQHTCPT=		LQHTCPTM=	AHC =	BHC =	LHCUPBD=			
LHCLOBND=		SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=			
SOLUBNT=	0.3300E-01	SOLUBTMP=	298.1	A =	0.3300E-01	B =	0.0000E+00	AVP =
BVP =		CVP =		VFUPRBD=	VPLWRBD=	AVCP =		
BVCP =		CVCP =		DVCP =	VHCLPBD=	VHCLOBND=		
HTFUSION=		LHTVAPOR=	HTCONSTN=	HTDECOMP=	HTSOLUTN=			
HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=			
TOXINHAL=	0.8000E-03	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=			
LARETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=			
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVF CHEMNAME = SILVER FLUORIDE PATHCODE = II SS

MOLEWT = 126.9	NBP = 1432.	NFP =	CRITTEMP =	CRITPRES =
DENSITY = 5820.	DENSTEMP = 293.1	SHRSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPNT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 177.0	SOLUBTMP = 293.1	A = -937.0	B = 3.800	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL = 0.1800E-02	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =
LAETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

SVI	CHEMNAME = SILVER IODATE		PATHCODE = II	
MOLECWT =	282.1	NBP =	NFP =	CRITTEMP =
DENSITY =	5530.	DENSTEMP =	SHPSTATE = S	BRHO =
CRHO =		LDUPREND =	LDLWRBND =	LQVISTMP =
AVIS =		BVIS =	LVUPRSDND =	LQTHRCND =
LTHCNTMP =		ACON =	BCON =	LTCLOBND =
LQHTCPPT =		LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =		SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT =	0.4100E-02	SOLUBTMP =	293.1	AVP =
BVP =		CVP =		AVCP =
BVCP =		CVCP =		VHCLOBND =
HTFUSION =		LHTVAPOR =	HTCOMBTN =	HTSOLUTN =
HTREACTN =		HTPOLYMR =	LOFLNLIM =	BURNRATE =
TOXINHAL =	0.8000E-03	INHALCNC =	INHALTME =	UPTOXLIM =
LATETOX =		ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVN CHEMNAME = SILVER NITRATE

PATHCODE = SS

MOLEWT = 169.9	NBP =	CRITTEMP =	CRITPRES =
DENSITY = 4350.	DENSTEMP = 292.2	ARHO =	BRHO =
CRHO =	LDUPRBN =	LOVISPT =	LOVISTMP =
AVIS =	BVIS =	LVLRBN =	LOTHRCND =
LTHCNTMP =	ACON =	LTCUPBN =	LTCLOBND =
LQHTCPT =	LQHTCPTM =	BHC =	LHCUPBN =
LHCLOBND =	SURFTENS =	INTFTENS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A = -1190.	AVP =
BVP =	CVP =	VFUPRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	UPTOXLIM = 0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

0.5000E-04

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVO CHEMNAME = SILVER OXIDE

PATHCODE = II

MOLEWT = 231.8	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 7140.	DENSTMP= 293.1	SHPSATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LOVISPT=	LOVISMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBD=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRND=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBD=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.1000E-02	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

SVS	CHEMNAME = SILVER SULFATE	PATHCODE = II SS	
MOLECW	= 311.8	NBP	=
DENSITY	= 5450.	DENSTEMP	= 293.1
CRHO	=	LDUPRND	=
AVIS	=	BVIS	=
LTHCNTMP	=	ACON	=
LQHTCPPT	=	LQHTCPTM	=
LHCLOBND	=	SURFTENS	=
SOLUBPNT	= 0.7400	SOLUBTMP	= 293.1
BVP	=	CVP	=
BVCP	=	CVCP	=
HTFUSION	=	LHTVAPOR	=
HTREACTN	=	HTPOLYMR	=
TOXINHAL	= 0.7000E-03	INHALCNC	=
LATETOX	=	ABFLWTMP	=
MOLFRAC	=		
		CRITTEMP	=
		ARHO	=
		LQVISTMP	=
		LQTHRCND	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	= 0.8400E-02
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		FLMETEMP	=
		CRITPRES	=
		BRHO	=
		LQVISTMP	=
		LQTHRCND	=
		LTCLOBND	=
		LHCUPBND	=
		INTFTTMP	=
		AVP	=
		AVCP	=
		VHCLOBND	=
		HTSOLUTN	=
		BURNRATE	=
		UPTOXLIM	=
		FLMETEMP	=

PROPERTY FILE VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
SXX  CHEMNAME = SULFUR(LIQUID)
      PATHCODE = A  X  Y
      MOLEWT = 256.5  NBP = 717.8  NFP = 394.9  CRITTEMP=
      DENSITY = 1800.  DENSTEMP= 393.2  SHPSTATE=L  ARHO = 2119.  CRITPRES=
      CRHO = 0.0000E+00  LDUPREND= 433.2  LDLPREND= 393.2  LQVISPNT= 0.1094E-01  LQVISTMP= 396.2
      AVIS = -12.15  BVIS = 3020.  LVUPREND= 409.2  LVLWRBND= 393.2  LQTHRCND=
      LTHCNTMP=  ACON =  BCON =  LTCUPBND=
      LQHTCPPT= 963.0  LQHTCPTM= 373.2  AHC = 696.2  BHC = 0.6699  LHCUPBND= 663.2
      LHCLOBND= 373.2  SURFTENS= 0.6080E-01  SFTNTMP= 393.2  INTFTENS= 0.5000E-01(E)  INTFTTMP= 400.0 (E)
      SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 10.17
      BVP = 3664.  CVP = 0.4004E-01  VFUPREND= 673.2  VPLWRBND= 393.2  AVCP = 0.2260E+05(E)
      BVCP = 0.0000E+00(E)  CVCP = 0.0000E+00(E)  DVCP = 0.0000E+00(E)  VHCUPBND= 400.0 (E)  VHCLOBND= 300.0 (E)
      HTFUSION= 0.4396E+05(E)  LHTVAPOR= 0.2889E+06  HTCOMSTN= -0.1103E+08  HTDECOMP=  HTSOLUTN=
      HTREACTN=  HTPOLYMR=  LOFLMLIM=  UPFLMLIM=  BURNRATE=
      TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
      LAIETOX =  ABFLNTMP=  MOLRATIO=  AIRFUEL =
      MOLFRAC =  FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S. SYSTEM OF UNITS

```

*****
TAL  CHEMNAME = TRIETHYLALUMINUM      PATHCODE = A  O  Z
MOLEWT = 114.2      NBP = 459.8      CRITTEMP= 678.0      CRITPRES= 0.1360E+08
DENSITY = 836.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1032.      BRHO = -0.6700
CRHO = 0.0000E+00      LDUPRBND= 363.1      LDLWRBND= 283.1      LQVISPNT= 0.2830E-02      LQVISTMP= 293.1
AVIS = -11.38      BVIS = 1616.      LVUPRBND= 363.1      LVLWRBND= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E)      LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 2093.      LQHTCPTM= 298.1      AHC = 845.1      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 273.1      SURFTENS= 0.2610E-01      SFTNTEMP= 301.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      =      B =      =      AVP = 11.13
BVP = 2369.      CVP = -73.15      VFUPRBND= 453.1      VPLWRBND= 353.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.5020E+06      HTCOMBNTN= -0.4268E+08      HTSOLUTN= -0.4640E+07
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TAP      CHEMNAME = P-TOLUENESULFONIC ACID      PATHCODE = SS
MOLECW  = 172.2      NBP      =
DENSITY = 1450.      DENSTEMP= 298.1
CRHO    =
AVIS    =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT= 270.0      SOLUBTMP= 293.1
BVP     =
BVCP    =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

NFP      = 377.5      (E) CRITTEMP=
SHPSTATE=S
LDLWRBND=
LVUPRBND=
BCON     =
AHC      =
SFTNTEMP=
A        =
VFUPRBND=
DVCP     =
HTCOMSTN=
LOFLMLIM=
INHALTME=
ABFLMTMP=

CRITPRES=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      =
AVCP     =
VHCLOBND=
HTSOLUTN= -0.1200E+06
BURNRATE=
UPTOXLIM= 0.5000E-03
FLMETEMP=
AIRFUEL  =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TBT  CHEMNAME = TETRABUTYL TITANATE      PATHCODE = A  O  T  U  X  Y
MOLEWT = 340.0      NBP = 585.0      NFP = 218.0      CRITTEMP=
DENSITY = 1000.      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1000.      (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPREND= 298.1      LDLWFSND= 273.1      LQVISPT= 0.9000E-01      LQVISTMP= 293.1
AVIS = -19.11      BVIS = 4895.      LVUPRSND= 303.1      LVLWRB:D= 283.1      LQTHRCND= 0.9304E-01(E)
LTHCNTMP= 293.1      ACCN = 0.9304E-01(E) BCON = 0.0000E+00(E) LTCUPBND= 293.1      LTCLOBND= 283.1
LQHTCPPT= 1465.      (E) LQHTCPTM= 293.1      AHC = 1465.      (E) BHC = 0.0000E+00(E) LHCUPBND= 293.1
LHCLOBND= 283.1      SURFTENS=
SFTNTEMP=
SOLUBPNT=
COLUBTMP=
A =
B =
BVP =
VUPRSND=
VPLWRB:D=
AVCP =
BVCV =
DVCV =
VHCUPBND=
VHCLOBND=
HTFUSION=
LHTVAPOR= 0.3300E+06      HTCOMSTN= -0.3400E+08(E) HTDECOMP=
HTSOLUTN=
HTREACTN=
LOFLMLIM= 2.000      UPFLMLIM= 12.00      BURNRATE= 0.5678E-04
TOXINHAL=
INHALCNC=
INHALINE=
LOTOXLIM=
LARETOX =
ABFLMTMP=
MOLRATIO=
AIRFUEL =
WOLFRAC =
FLMETEMP=

```

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN S: SYSTEM OF UNITS

TCA	CHEMNAME = 2,4,5-TRICHLOROPHENOXACETIC ACID	PATHCODE = II	
MOLEWT =	255.5	NFP =	431.0
DENSITY =	1000. (E)	DENSTEMP =	293.1
CRHO =		LDUPRND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =		LOHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.2400E-01	SOLUBTMP =	293.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LAFETOX =		ABFLMTMP =	
MOLFRAC =			
CRITPRES =		CRITTEMP =	
BRHO =		ARHO =	
LOVISTMP =		LOVISPNT =	
LQTHRCND =		LVLWRBND =	
LTCLOBND =		LTCUPBND =	
LHCUPBND =		BHC =	
INTFTTMP =		INTFTENS =	
AVP =		B =	
AVCP =		VPLWRBND =	
VHCLOBND =		VHCUPBND =	
HTSOLUTN =		HTDECONP =	
BURNRATE =		UPFLMLIM =	
UPTOXLIM =	0.5000E-04	LOTOXLIM =	0.5000E-03
FLMETEMP =		AIRFUEL =	
		MOLRATIO =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TCE  CHEMNAME = TRICHLOROETHANE  PATHCODE = A  X  Y
MOLEWT = 133.4  NBP = 347.0  NFP = 234.0  (E)  CRITTEMP=
DENSITY = 1310.  DENSTEMP= 293.2  SHPSIATE=L  ARHO = 1777.  BRHO = -1.600
CRHO = 0.0000E+00  LDUPREND= 373.2  LDUPREND= 253.2  LOVISPAT= 0.8300E-03  LOVISTMP= 293.2
AVIS = -11.53  BVIS = 1300.  LVUPREND= 303.2  LVLRBND= 263.2  LQTHRCND=
LTHCNTMP=  ACON =  LTCUPBND=
LQHTCPPT= 1026.  LQHTCPTM= 293.2  AHC = 143.7  BHC = 3.014  LHCUPBND= 333.2
LHCLOBND= 283.2  SURFTENS= 0.2540E-01  SFTNTEMP= 293.2  INTFTENS= 0.4500E-01(E)  INTFTMP= 293.0  (E)
SOLUBPNT= 0.7000E-01  SOLUBTMP= 293.2  A =  B =  AVP = 9.689
BVP = 1627.  CVP = 0.4004E-01  VFUPREND= 353.2  VPLWRBND= 293.2  AVCP = 0.2290E+05
BVCP = 271.7  CVCP = -0.1675  DVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.2428E+06  HTCOMBTN= -0.1100E+08(E)  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 7.000  UPFLMLIM= 16.00  BURNRATE= 0.4830E-04(E)
TOXINHAL= 350.0  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-02  UPTOXLIM= 0.1500E-01
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TCL  CHEMNAME = TRICHLOROETHYLENE  PATHCODE = A  X  Y
MOLEWT = 131.4  NBP = 360.0  NFP = 186.8  CRITTEMP=
DENSITY = 1460.  DENSTEMP= 293.2  SHPSRATE=L  ARHO = 1900.  BRHO = -1.500
CRHO = 0.0000E+00  LDUPRBD= 333.2  LDLWRBND= 253.2  LQVISPT= 0.5800E-03  LQVISTMP= 293.2
AVIS = -10.28  BVIS = 830.0  LVUPRBD= 323.2  LVLWRBND= 263.2  LQTHRCND=
LTHCNTMP=  ACON =  LTCUPBND=  LTCLOBND=
LQHTCPPT= 967.1  LQHTCPTM= 293.2  AHC = 598.9  BHC = 1.256  LHCUPBND= 353.2
LHCLOBND= 253.2  SURFTENS= 0.2930E-01  SFTNTMP= 293.2  INTFTENS= 0.4500E-01(E)  INTFTTMP= 293.0 (E
SOLUBPNT= 0.1100  SOLUBTMP= 298.2  A =  B =  AVP = 9.913
BVP = 1768.  CVP = 0.4004E-01  VFUPRBD= 373.2  VPLWRBND= 273.2  AVCP = 0.3148E+05
BVCP = 206.4  CVCP = -0.1424  DVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.2395E+06  HTCOMSTN=  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 8.000  UPFLMLIN= 10.50  BURNRATE=
TOXINHAL= 100.0  INHALCNC= 200.0  INHALTME= 1800.  LOTOXLIM= 0.5000E-04  UPTOXLIM= 0.5000E-03
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TCP CHEMNAME = TRICRESYL PHOSPHATE PATHCODE = A X

MOLECWT = 368.0	NBP = 683.0	NFP = 240.0	CRITTEMP=	CRITPRES=	
DENSITY = 1160.	DENSTEMP= 293.2	SHPSTATE=L	ARHO = 1453.	BRHO = -1.0000	
CRHO = 0.0000E+00	LDUPREND= 298.2	LDLWRBND= 273.2	LQVISPAT= 0.8000E-01	LQVISTMP= 298.2	
AVIS = -22.30	BVIS = 5890.	LVUPRSND= 313.2	LVLWRBND= 293.2	LQTHRCND=	
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=	
LQHTCPPT= 1591.	LQHTCPTM= 293.2	AHC = 1591.	BHC = 0.0000E+00	LHCUPBND= 303.2	
LHCLOBND= 278.2	SURFTENS= 0.4400E-01	SFTNTMP= 298.2	INTFTENS= 0.4500E-01(E)	INTFTTMP= 293.0 (E)	
SOLUBPNT= 0.3000E-03	SOLUBTMP= 298.2	A =	B =	AVP = 10.24 (E)	
BVP = 3575.	(E) CVP = 0.0000E+00(E)	VFUPRSND= 680.0	(E) VPLWRBND= 500.0	(E) AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR= 0.1860E+06(E)	HTCOMBTN=	HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPQLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=	
TOXINHAL=	INHALCNC=	INHALTME=	LQTOXLIM= 0.5000E-03	UPTOXLIM= 0.5000E-02	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TCS  CHEMNAME = TRICHLOROSILANE          PATHCODE = A  0
MOLECWT = 135.5      NBP      = 305.0      NFP      = 146.0      CRITTEMP=
DENSITY = 1340.      DENSTEMP= 293.1      SHPSTATE=L      ARHO      = 1633.      (E) BRHO      = -1.000      (E)
CRHO      = 0.0000E+00(E) LDUPRBND= 303.1      LDWRBND= 273.1      LQVISPT= 0.3100E-03      LQVISTMP= 298.1
AVIS      = -11.43      (E) BVIS      = 1000.      (E) LVUPRBND= 303.1      LVLWRBND= 288.1      LQTHRCND= 0.1279      (E)
LTHCNTMP= 293.1      ACON      = 0.1279      (E) BCON      = 0.0000E+00(E) LTCUPBND= 298.1      LTCLOBND= 283.1
LQHTCPT= 963.0      LQHTCPTM= 293.1      AHC      = 963.0      (E) BHC      = 0.0000E+00(E) LHCUPBND= 298.1
LHCLOBND= 283.1      SURFTENS= 0.2500E-01(E) SFTNTMP= 293.1      INTFTENS=
SOLUBNT=
SOLUBTMP=
A      =
B      =
AVP      = 9.792
BVP      = 1460.      CVP      = -0.1500      VFUPRBND= 308.1      VPLWRBND= 213.1      AVCP      =
BVCP      =
CVCP      =
DVCVP      =
VHCUPBND=
VHCLOBND=
HTFUSION=
LHTVAPOR= 0.2000E+06      HTCOMBNTN=
HTDECOMP=
HTSOLUTN=
HTREACTN=
HTPOLYMR=
LOFLMLIM= 1.200      UPFLMLIM= 90.50      BURNRATE=
TOXINHAL=
INHALCNC=
INHALTME=
LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LATETOX =
ABFLMTMP=
AIRFUEL =
FLMETEMP=
MOLFRAC =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/19/12 PAGE366A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TCT	CHEMNAME = TRICHLORO-S-TRIAZINETRIONE	PATHCODE = II SS
MOLEWT =	232.5	NBP =
DENSITY =	1000.	(E) DENSTEMP =
CRHO =		LDUPRBND =
AVIS =		BVIS =
LTHCNTMP =		ACON =
LQHTCPPT =		LQHTCPTM =
LHCLOBND =		SURFTENS =
SOLUBPNT =	1.200	SOLUBTMP =
BVP =		CVP =
BVCP =		CVCP =
HTFUSIGN =		LHTVAPOR =
HTREACTN =		HTPOLYMR =
TOXINHAL =		INHALCNC =
LATETOX =		ABFLMTMP =
MOLFRAC =		
		CRITTEMP =
		ARHO =
		LOVISPT =
		LVLWRBND =
		LTCUPBND =
		BHC =
		INTFTENS =
		B =
		VPLWRBND =
		VHCUPBND =
		HTDECOMP =
		UPFLMLIM =
		LOTOXLIM =
		AIRFUEL =
		CRITPRES =
		BRHO =
		LOVISTMP =
		LOTHRCND =
		LTCLOBND =
		LHCUPBND =
		INTFTTMP =
		AVP =
		AVCP =
		VHCLOBND =
		HTSOLUTN =
		BURNRATE =
		UPTOXLIM =
		FLMETEMP =

0.5000E-02

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TDB  CHEMNAME = TETRADECYLBENZENE      PATHCODE = A  T  U
      MOLEWT = 274.5      NBP = 632.0      CRITPRES=
      DENSITY = 855.0      DENSTEMP= 293.1      SHPSATE=L      ARHO = 1060.      BRHO = -0.7000
      CRHO = 0.0000E+00      LDUPRND= 303.1      LDLWRND= 289.1      LQVISPLT= 0.7680E-02      LQVISTMP= 293.1
      AVIS = -12.83      BVIS = 2334.      LVUPRND= 333.1      LVLWRBND= 293.1      LQTHRCND= 0.1512      (E
      LTHCNTMP= 293.1      ACCN = 0.1512      (E) BCON = 0.0000E+00(E)      LTCUPBND= 289.1      LTCLOBND= 298.1
      LQHTCPT= 1507.      LQHTCPTM= 298.1      AHC = 1507.      BHC = 0.0000E+00      LHCUPBND= 298.1
      LHCLOBND= 289.1      SURFTENS= 0.3027E-01      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP =
      BVP =      CVP =      VFUPRND=      VPLWRBND=      AVCP =
      BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
      HTFUSION=      LHTVAPOR= 0.2212E+06      HTCOYSTN= -0.4284E+08      HTSOLUTN=
      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE= 0.7381E-04
      TOXINHAL=      INHALCNC=      INHALTME=      LQTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TDC	CHEMNAME = 1-TRIDECENE
1	1-TRIDECENE
2	1-TRIDECENE
3	1-TRIDECENE
4	1-TRIDECENE
5	1-TRIDECENE
6	1-TRIDECENE
7	1-TRIDECENE
8	1-TRIDECENE
9	1-TRIDECENE
10	1-TRIDECENE
11	1-TRIDECENE
12	1-TRIDECENE
13	1-TRIDECENE
14	1-TRIDECENE
15	1-TRIDECENE
16	1-TRIDECENE
17	1-TRIDECENE
18	1-TRIDECENE
19	1-TRIDECENE
20	1-TRIDECENE
21	1-TRIDECENE
22	1-TRIDECENE
23	1-TRIDECENE
24	1-TRIDECENE
25	1-TRIDECENE
26	1-TRIDECENE
27	1-TRIDECENE
28	1-TRIDECENE
29	1-TRIDECENE
30	1-TRIDECENE
31	1-TRIDECENE
32	1-TRIDECENE
33	1-TRIDECENE
34	1-TRIDECENE
35	1-TRIDECENE
36	1-TRIDECENE
37	1-TRIDECENE
38	1-TRIDECENE
39	1-TRIDECENE
40	1-TRIDECENE
41	1-TRIDECENE
42	1-TRIDECENE
43	1-TRIDECENE
44	1-TRIDECENE
45	1-TRIDECENE
46	1-TRIDECENE
47	1-TRIDECENE
48	1-TRIDECENE
49	1-TRIDECENE
50	1-TRIDECENE
51	1-TRIDECENE
52	1-TRIDECENE
53	1-TRIDECENE
54	1-TRIDECENE
55	1-TRIDECENE
56	1-TRIDECENE
57	1-TRIDECENE
58	1-TRIDECENE
59	1-TRIDECENE
60	1-TRIDECENE
61	1-TRIDECENE
62	1-TRIDECENE
63	1-TRIDECENE
64	1-TRIDECENE
65	1-TRIDECENE
66	1-TRIDECENE
67	1-TRIDECENE
68	1-TRIDECENE
69	1-TRIDECENE
70	1-TRIDECENE
71	1-TRIDECENE
72	1-TRIDECENE
73	1-TRIDECENE
74	1-TRIDECENE
75	1-TRIDECENE
76	1-TRIDECENE
77	1-TRIDECENE
78	1-TRIDECENE
79	1-TRIDECENE
80	1-TRIDECENE
81	1-TRIDECENE
82	1-TRIDECENE
83	1-TRIDECENE
84	1-TRIDECENE
85	1-TRIDECENE
86	1-TRIDECENE
87	1-TRIDECENE
88	1-TRIDECENE
89	1-TRIDECENE
90	1-TRIDECENE
91	1-TRIDECENE
92	1-TRIDECENE
93	1-TRIDECENE
94	1-TRIDECENE
95	1-TRIDECENE
96	1-TRIDECENE
97	1-TRIDECENE
98	1-TRIDECENE
99	1-TRIDECENE
100	1-TRIDECENE

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TDI	CHENAME =	TOLUENE 2,4-DIISSOCYANATE (TDI)	PATHCODE = A X Y			
MOLEWT =	174.2	NBP =	523.0	(E)	CRITTEMP =	CRITPRES =
DENSITY =	1220.	DENSTEMP =	298.2		SHPSRATE = L	BRHO = -1.0000
CRHO =	0.0000E+00	LDUPREND =	333.2		LDLWRBND =	0.5800E-02(E) LOVISTMP =
AVIS =	-18.80	(E) BVIS =	4000.		(E) LVUPREND =	293.0 (E) LOVISPNT =
LTHCNTMP =	298.0	(E) ACON =	0.1700		(E) BCON =	0.0000E+00(E) LTCUPBND =
LQHTCPPT =	2300.	(E) LQHTCPTM =	298.0		(E) AHC =	2300. (E) BHC =
LHCLOBND =	298.0	(E) SURFTENS =	0.2500E-01(E) SFTNTMP =	298.0	(E) INTFTENS =	0.4500E-01(E) INTFTTMP =
SOLUBPNT =		SOLUBTMP =			A =	E
BVP =	3301.	CVP =	0.4004E-01		VFUPREND =	423.2
BVCP =		CVCP =			DVCP =	
HTFUSION =		LHTVAPOR =			HTCOWSTN =	-0.2390E+08(E) HTDECOMP =
HTREACTN =		HTPOLYMR =			LOFLMLIM =	0.9000
TOXINHAL =	0.2000E-01	INHALCNC =	0.2000E-01		INHALTME =	300.0
LATEOX =		ABFLMTMP =			MOLRATIO =	
MOLFRAC =					AIRFUEL =	
					UPFLMLIM =	9.500
					LOTCLIM =	0.5000E-03
					UPTOXLIM =	0.5000E-02
					FLMETEMP =	

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TDN	CHEMNAME = TRIDECANOL		PATHCODE = A T U		
MOLECW	=	200.4	NBP	=	547.0
DENSITY	=	846.0	DENSTEMP	=	293.2
CRHO	=	0.0000E+00	LDUPREND	=	308.2
AVIS	=		BVIS	=	
LTHCNTMP	=	293.0	(E) ACON	=	0.1600
LQHTCPPT	=	2200.	(E) LOHTCPTM	=	293.0
LHCLOBND	=	293.0	(E) SURFTENS	=	0.3000E-01(E)
SOLUBPNT	=		SOLUBTMP	=	
BVP	=	1424.	CVP	=	-164.2
BVCP	=	1060.	CVCP	=	-0.3538
HTFUSION	=		LHTVAPOR	=	0.2680E+06
HTREACTN	=		HTPOLYMR	=	
TOXINHAL	=		INHALCNC	=	
LATETOX	=		ABFLMTMP	=	
MOLFRAC	=				

CRITPRES=					
BRHO	=	-0.8000			
LOVISTMP	=	293.2			
LOTHRCND	=	0.1600			
LTCLOBND	=	293.0	(E)		
LHCUPBND	=	303.0	(E)		
INTFTTMP	=	293.0	(E)		
AVP	=	8.727			
AVCP	=	0.3153E+05			
VHCLOBND	=	250.0			
HTSOLUTN	=				
BURNRATE	=				
UPTOXLIN	=				
FLMETEMP	=				

CRITTEMP	=	547.0			
ARHO	=	1081.			
LOVISPNT	=	273.2			
LVLWRBND	=				
LTCUPBND	=	303.0	(E)		
SHC	=	2200.	(E)		
INTFTENS	=	293.0	(E)		
A	=				
VFUPREND	=	573.2			
DVCP	=	0.0000E+00			
HTCOMSTN	=	-0.2840E+08(E)			
LOFLMLIM	=				
INHALTME	=				
MOLRATIO	=				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TEA CHEMNAME = TRIETHANOLAMINE PATHCODE = A P Q

MOLEWT = 149.2	NBP =	294.8	CRITTEMP =		CRITPRES =
DENSITY = 1130.	DENSTEMP = 293.2	SHRSTATE=L	ARHO =	1423.	BRHO = -1.0000
CRHO = 0.0000E+00	LDUPRBDN = 313.2	LDLWRBND = 293.2	LQVISPNT =		LQVISTMP =
AVIS =	BVIS =	LVUPRBDN =	LVLWRBND =		LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =		LTCLOBND =
LQHTCPPT = 2052.	LQHTCPTM = 293.2	AHC = 811.6	BHC =	4.187	LHCUPBND = 303.2
LHCLOBND = 283.2	SURFTENS =	SFTNTMP =	INTFTENS =		INTFTTMP =
SOLUBPNT =	SOLUBTMP =	A =	B =		AVP = 10.68
BVP = 2963.	CVP = -85.36	VFUPRBDN = 623.2	VPLWRBND =	423.2	AVCP = 0.7720E+05
BVCP = 644.8	CVCP = -0.3601	DVCP = 0.7536E+04	VHCUPBND =	600.0	VHCLOBND = 250.0
HTFUSIGN = 0.1825E+06	LHTVAPOR = 0.4095E+06	HTCOMSTN = -0.2430E+08(E)	HTDECOMP =		HTSOLUTN = -0.5000E+05(E)
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =		BURNRATE =
TOXINHAL =	INHALCNC =	INHALTNE =	LOTOXLIM =	0.5000E-03	UPTOXLIM = 0.5000E-02
LARETOX =	ABFLTMP =	MOLRATIO =	AIRFUEL =		FLMETEMP =
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TEB CHEMNAME = TRIETHYLBENZENE PATHCODE = A T U

MOLEWT = 162.3	NBP = 489.0	NFP =	CRITTEMP =	CRITPRES =	
DENSITY = 861.0	DENSTEMP = 293.2	SHPSTATE=L	ARHO = 1153.	BRHO = -1.0000	
CRHO = 0.0000E+00	LDUPRBND = 313.2	LDLWRBND = 283.2	LQVISPNT = 0.2000E-02(E)	LQVISTMP = 293.0	(E)
AVIS = -13.40	(E) BVIS = 2100.	(E) LVUPRBND = 293.0	(E) LVLWRBND = 278.0	(E) LQTHRCND = 0.1500	(E)
LTHCNTMP = 293.0	(E) ACON = 0.1500	(E) BCON = 0.0000E+00(E)	(E) LTCUPBND = 293.0	(E) LTCLOBND = 278.0	(E)
LQHTCPPT = 2000.	(E) LQHTCPTM = 293.0	(E) AHC = 2000.	(E) EHC = 0.0000E+00(E)	(E) LHCUPBND = 298.0	(E)
LHCLOBND = 278.0	(E) SURFTENS = 0.2500E-01(E)	SFTNTEMP = 293.0	(E) INTFTENS = 0.5000E-01(E)	INTFTTMP = 293.0	(E)
SOLUBPNT =	SOLUSTMP =	A =	B =	AVP = 9.689	(E)
BVP = 2290.	(E) CVP = 0.0000E+00(E)	VFUPRBND = 489.0	(E) VPLWRBND = 300.0	(E) AVCP = 2177.	
BVCP = 837.8	CVCP = -0.3056	DVCP = 0.0000E+00	VHCUPBND = 600.0	VHCLOBND = 250.0	
HTFUSION =	LHTVAPOR = 0.2700E+06(E)	HTCOMBNTN = -0.3780E+08(E)	HTDECOMP =	HTSOLUTN =	
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =	
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM =	
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TEC      CHEMNAME = TETRACHLOROETHANE      PATHCODE = A  X

MOLEWT = 167.8      NBP      = 419.5      NFP      = 229.4      CRITTEMP=
DENSITY = 1595.      DENSTEMP= 293.1      SHPS:ATE=L      ARHO      = 1982.      BRHO      = -1.530
CRHO      = 0.0000E+00      LDUPRND= 303.1      LDWRBND= 273.1      LOVISRNT= 0.1950E+02      LOVISTMP= 288.1
AVIS      = -11.27      BVIS      = 1450.      LVUPRND= 303.1      LVLWRBND= 273.1      LQTHRCND= 0.1122
LTHCNTMP= 303.1      ACON      = 0.1122      (E) BCON      = 0.0000E+00(E)      LTCUPBND= 273.1      LTCLOBND= 273.1
LQHTCPPT= 879.2      LQHTCPTM= 293.1      AHC      = 879.2      BHC      = 0.0000E+00      LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.3785E-01      SFTNTEMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT= 0.2880      SOLUBTMP= 298.1      A      = -0.1798      B      = 0.1570E+02      AVP      = 9.971
BVP      = 2075.      CVP      = -0.1500      VFUPRND= 418.1      VPLWRBND= 299.1      AVCP      = 0.5418E+05
BVCP      = 156.6      CVCP      = 0.0000E+00      DVCP      = 0.0000E+00      VHCUPBND= 400.0      VHCLOBND= 300.0
HTFUSION=      LHTVAPOR= 0.2300E+06      HTCOMBNTN=      HTDECCVP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL= 5.000      INHALCNC= 10.00      INHALTME= 1800.      IOTOXLIM= 0.5000E+04      UPTOXLIM= 0.5000E+03
LALETEOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TED   CHEMNAME = TETRAETHYL DITHIOPYROPHOSPHATE      PATHCODE = A   X   Y
MOLEWT = 322.3      NBP =                               NFP =          CRITTEMP=
DENSITY = 1190.      DENSTEMP= 298.1                  SHPSTATE=L      ARHO = 1483.      (E) BRHO = -1.000 (E
CRHO = 0.0000E+00(E) LDUPREND= 303.1                  LDLWRBND= 283.1      LOVISTMP=
AVIS =              BVIS =                               LVUPRBND=          LQTHRCND=
LTHCNTMP=           ACON =                               BCON =          LTCLOBND=
LQHTCPPT=           LQHTCPTM=                            AHC =          LHCUPBND=
LHCLOBND=           SURFTENS=                            SFTNTEMP=       INTFTTMP=
SOLUBPNT= 0.2500E-02 SOLUBTMP= 293.1                  A =              B =          AVP =
BVP =              CVP =                               VFUPRBND=       VPLWRBND=
BVCP =             CVCP =                               DVCV =          VHCLOBND=
HTFUSION=          LHTVAPOR=                            HTCOMBNTN=      HTSOLUTN=
HTREACTN=          HTPOLYMR=                            LOFLMLIM=       UPFLMLIM=
TOXINHAL=          INHALCNC=                            INHALTME=       LOTOXLIM=
LAFETOX =          ABFLNTMP=                            MOLRATIO=       AIRFUEL =
MOLFRAC =
*****

```

0.5000E-04(E

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TEL  CHEMNAME = TETRAETHYL LEAD          PATHCODE = A  X  Y
MOLEWT = 23.44 (E) NBP =                NFP = 136.0  CRITTEMP=
DENSITY = 1590.  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1590.  (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPRBN= 303.0 (E) LDLWRBN= 283.0 (E) LOVISPT= 0.7500E-03(E) LQVISTMP= 293.0 (E
AVIS = -11.70 (E) BVIS = 1320. (E) LVUPRBN= 303.0 (E) LVLWRBN= 283.0 (E) LQTHRCND=
LTHCNTMP= ACON = BCON = LTCUPBN= LTCLOBND=
LOHTCPT= 2500. (E) LOHTCPTM= 293.0 (E) AHC = 2500. (E) BHC = 0.0000E+00(E) LHCUPBN= 313.0 (E
LHCLOBND= 283.0 (E) SURFTENS= 0.4000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 293.0 (E
SOLUBPNT= SOLUBTMP= A = B = AVP = 9.558 (E
BVP = 1722. (E) CVP = 0.0000E+00(E) VFUPRBN= 313.0 (E) VPLWRBN= 283.0 (E) AVCP =
BVCP = CVCP = DVCP = VHCUPBN= VHCLOBND=
HTFUSION= LHTVAPOR= HTCONSTN= -0.1830E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= 0.9560E-01(E) INHALCNC= INHALTME= LOTOXLM= UPTOXLM=
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL = FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TEN	CHEMNAME = TRIETHYLAMINE	PATHCODE = A	P	Q	R	S
MOLEWT =	101.2	NBP =	362.7	NFP =	158.5	CRITTEMP= 535.0
DENSITY =	729.0	DENSTEMP=	293.2	SHPSTATE=L		CRITPRES= 0.3000E+07
CRHO =	0.0000E+00	LDUPREND=	313.2	LDWRBND=	273.2	BRHO = -1.300
AVIS =		BVIS =		LVUPRBND=		LOVISTMP=
LTHCNTMP=		ACON =		BCON =		LOTHRCND=
LQHTCPPT=	2324.	LQHTCPTM=	293.2	AHC =	1403.	LTCLOBND=
LHCLOBND=	253.2	SURFTENS=	0.2070E-01	SFTNTEMP=	293.2	LHCUPBND= 373.2
SOLUBPNT=	5.500	SOLUBTMP=	293.2	A =		INTFTTMP=
BVP =	1252.	CVP =	-51.16	VFUPRBND=	403.2	AVP = 9.024
BVCP =	514.1	CVCP =	-0.1340	DVCP =	0.0000E+00	AVCP = 0.1968E+05
HTFUSION=		LHTVAPOR=	0.3349E+06	HTCOMBTN=	-0.3963E+08	VHCLOBND= 250.0
HTREACTN=		HTPOLYMR=		LOFLMLIM=	1.200	HTSOLUTN= -0.4145E+06
TOXINHAL=	25.00	INHALCNC=	100.0	INHALTME=	1800.	BURNRATE= 0.1033E-03
LAETOX =		ABFLMTMP=		MOLRATIO=		UPTOXLIM= 0.5000E-03
MOLFRAC =				AIRFUEL =		FLMETEMP=

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TES  CHEMNAME = 2,4,5-T(ESTERS)          PATHCODE = A  X  Y
MOLEWT = 400.0 (E) NBP = 650.0 (E) NFP = CRITPRES=
DENSITY = 1200. DENSTEMP= 293.1 SHPSTATE=L ARHO = 1453. BRHO = -1.000
CRHC = 0.0000E+00 LDUPRBND= 298.1 LDLWRBND= 273.1 LQVISPNT= LQVISTMP=
AVIS = BVIS = LVUPRBND= LVLWRBND= LOTHRCND=
LTHCNTMP= ACCN = BCON = LTCUPBND= LTCLOBND=
LQHTCPPT= LOHTCPTM= AHC = BHC = LHCUPBND=
LHCLOBND= SURFTENS= SFTNIEMP= INTFTENS= INTFTTMP=
SOLUBPNT= SOLUBTMP= A = B = AVP = 9.966 (E)
BVP = 3060. (E) CVP = -0.1500 (E) VFUPRBND= 623.1 VPLWRBND= 493.1 AVCP =
BVCP = CVCP = DVCP = VHCLOBND=
HTFUSION= LHTVAPOR= HTCOMSTN= HTSOLUTN=
HTREACTN= HTPOLYMR= LOFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= INHALCNC= INHALTME= UPTOXLIM= 0.5000E-04 UPTOXLIM= 0.5000E-03
LATETOX = ABFLNTMP= MOLRATIO= FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TET      CHEMNAME = TRIETHYLENETETRAMINE      PATHCODE = A P Q
MOLECWt = 146.2      NBP = 550.6      NFP = 238.0      CRITTEMP= 733.0      CRITPRES= 0.3200E+07
DENSITY = 982.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1218.      BRHO = -0.8000
CRHO = 0.0000E+00      LDUPRBND= 323.2      LDWRBND= 273.2      LOVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
LQHTCPPT= 2200.      (E) LQHTCPTM= 293.0      (E) AHC = 2200.      (E) BHC = 0.0000E+00(E) LHCUPBND= 293.0      (E)
LHCLOBND= 285.0      (E) SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.322
BVP = 1897.      CVP = -111.2      VFUPRBND= 593.2      VPLWRBND= 413.2      AVCP = 0.3442E+05
BVCP = 782.9      CVCP = -0.3781      DVCP = 0.3936E-04      VHCUPBND= 600.0      VHCLOBND= 250.0
HTFUSION=      LHTVAPOR=      HTCOMBTN= -0.3150E+08(E) HTDECOMB=      HTSOLUTN= -0.3000E+05(E)
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TFA CHEMNAME = TALLOW FATTY ALCOHOL PATHCODE = II

MOLEWT = 262.0	NBP = 522.0	(E) NFP = 326.0	CRITTEMP=	CRITPRES=
DENSITY = 810.0	DENSTEMP= 298.1	SHPSIATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRSND=	LOVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRSND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =
BVP =	CVP =	VFUPRSND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN= -0.4300E+08(E)	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TFC  CHEMNAME = TRIFLUOROCHELOETHYLENE  PATHCODE = A  B  C  H  I  J
MOLEWT = 116.5  NBP = 245.0  NFP =  CRITTEMP= 379.4  (E) CRITPRES= 0.4080E+07(E)
DENSITY = 1305.  DENSTEMP= 293.1  SHPSTATE=L  ARHO =  BRHO =
CRHO =  LDUPRND=  LDWRBND=  LOVISPT=  LOVISTMP=
AVIS =  BVIS =  LVUPRND=  LVLWRBND=  LQTHRCND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=  LTCLOBND=
LQHTCPMT=  LQHTCPTM=  AHC =  EHC =  LHCUPBND=
LHCLOBND=  SURFTENS= 0.1200E-01(E) SFTNTMP= 293.1  INTFTENS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 8.806
BVP = 931.0  CVP = -0.1500  VFUPRND= 263.1  VPLWRBND= 243.1  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR= 0.1920E+06  HTCONBNT=  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 16.00  UPFLMLIM= 34.00  BURNRATE=
TOXINHAL= 20.00  INHALCNC=  INHALTME=  LOTOXLIM=  UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO= 0.7000  (E) AIRFUEL = 2.946  (E) FLMETEMP=
MOLFRAC =

```

0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

TFE	CHEMNAME = TETRAFLUOROETHYLENE, INHIBITED	PATHCODE = A	B	C	Z	(E) CRITPRES=	0.3950E+07(E)
MOLECW	= 100.0	NBP	= 197.0	NFP	= 131.0	CRITTEMP=	306.0
DENSITY	=	DENSTEMP=		SHSTATE=G		ARHO	= BRHO
CRHO	=	LDUPRBND=		LDLWRBND=		LQVISPNT=	LOVISTMP=
AVIS	=	BVIS	=	LVUPRBND=		LVLWRBND=	LOTHRCND=
LTHCNTMP=		ACON	=	BCON	=	LTCUPBND=	LTCLOBND=
LOHTCPPT=		LOHTCPTM=		AHC	=	BHC	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTMP=		INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A	=	E	AVP
BVP	= 875.1	CVP	= -0.1500	VFUPRBND=	273.1	VPLWRBND=	197.1
BVCP	= 205.1	(E) CVCP	= -0.1496	(E) DVCP	=	0.3797E-04(E) VHCUPBND=	500.0
HTFUSION=		LHTVAPOR=		HTCOMBNTN=	-0.9000E+07(E)	HTDECOMP=	
HTREACTN=		HTPOLYMR=	-0.1050E+07	LOFLMLIM=	10.00	UPFLMLIM=	50.00
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	
LATETOX	=	ABFLMTMP=		MOLRATIO=	0.7500	(E) AIRFUEL	= 2.746
MOLFRAC	=					(E) FLMETEMP=	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TFR	CHEMNAME = TRIFLURALIN	PATHCODE = II	
MOLEWT =	335.3	NBP =	315.0
DENSITY =	1000. (E)	DENSTMP =	293.1
CRHO =		LDLWRBND =	
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	
SOLUBPNT =	0.1000E-03(E)	SOLUBTMP =	300.1
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		CRITTEMP =	
		ARHO =	
		LQVISPNT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTENS =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		UPTOXLIM =	0.5000E-02
		FLMETEMP =	
			0.1500E-01

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TGC  CHEMNAME = TRIPROPYLENE GLYCOL      PATHCODE = A  P  Q
MOLECWT = 192.3  NBP = 546.0  NFP = 228.0  CRITTEMP=
DENSITY = 1021.  DENSTEMP= 293.1  SHPSIATE=L  ARHO = 1313.  (E) BRHO = -1.000  (E
CRHO = 0.0000E+00(E) LDUPREND= 303.1  LDWRBND= 273.1  LOVISINT=
AVIS =  BVIS =  LVUPREND=
LTHCNTMP=  ACON =  BCON =  LTCUPBND=
LQHTCPPT=  LQHTCPTM=  AHC =  BHC =  LHCUPBND=
LHCLOBND=  SURFTENS=  SFTNTEMP=  INTFTENS=  INTFTTMP=
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP =
BVP =  CVP =  VFUPREND=  VPLWRBND=  AVCP =
BVCP =  CVCP =  DVCP =  VHCUPBND=  VHCLOBND=
HTFUSION=  LHTVAPOR=  HTCOMBNTN= -0.3180E+08(E) HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 0.8000  (E) UPFLMLIN= 5.000  (E) BURNRATE=
TOXINHAL=  INHALCNC=  INHALTME=  LOTOXLIN= 0.1500E-01(E) UPTOXLIM=
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
THF  CHEMNAME = TETRAHYDROFURAN
      MOLECW = 72.10  NBP = 339.0  = 164.7  CRITTEMP = 540.2  CRITPRES = 0.5190E+07
      DENSITY = 888.0  DENSTEMP = 293.2  SHPSTATE=L  ARHO = 1211.  BRHO = -1.100
      CRHO = 0.0000E+00  LDUPREND = 323.2  LDWRBND = 273.2  LOVISINT =  LOVISTMP =
      AVIS =  BVIS =  LVUPRND =  LVLRBND =  LQTHRCND =
      LTHCNTMP =  ACON =  BCON =  LTCUPBND =  LTCLOBND =
      LQHTCPPT = 1675.  LQHTCPTM = 293.2  AHC = 754.2  BHC = 3.140  LHCUPBND = 373.2
      LHCLOBND = 253.2  SURFTENS = 0.2800E-01  SFTNTEMP = 293.2  INTFTENS =  INTFTTMP =
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 10.05
      BVP = 1707.  CVP = 0.4004E-01  VFUPRND = 333.2  VPLWRBND = 253.2  AVCP = 0.1852E+05(E)
      BVCP = 357.3  (E)  CVCP = -0.1810  (E)  DVCP = 0.3200E-04(E)  VHCUPBND = 500.0  (E)  VHCLOBND = 300.0  (E)
      HTFUSION =  LHTVAPOR = 0.4103E+06  HTCOMSTN = -0.3488E+08  HTDECOMP =  HTSOLUTN = -0.3000E+05(E)
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 1.800  UPFLMLIM = 11.80  BURNRATE = 0.7833E-04
      TOXINHAL = 200.0  INHALCNC = 500.0  INHALTME = 1800.  LOTCXLIN = 0.5000E-04  UPTOXLIM = 0.5000E-03
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
THN  CHEMNAME = TETRAHYDRONAPHTHALENE  PATHCODE = A  T  U
MOLEWT = 132.2  NBP = 481.0  NFP = 242.6  CRITTEMP=  CRITPRES=
DENSITY = 974.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1263.  BRHO = -1.0000
CRHO = 0.0000E+00  LDUPREND= 303.2  LDLRBND= 273.2  LQVISPT= 0.2000E-02  LQVISTMP= 298.2
AVIS = -11.73  BVIS = 1640.  LVUPRBND= 353.2  LVLWRBND= 283.2  LQTHRCND= 0.1500  (E)
LTHCNTMP= 293.0  (E)  ACON = 0.1500  (E)  BCON = 0.0000E+00(E)  LTCUPEND= 303.0  (E)  LTCLOBND= 283.0  (E)
LOHTCPPT= 1675.  LOHTCPTM= 293.2  AHC = 1675.  EHC = 0.0000E+00  LHCUPBND= 303.2
LHCLOBND= 273.2  SURFTENS= 0.3550E-01  SFTNTMP= 293.2  INTFTENS= 0.4500E-01(E)  INTFTTMP= 293.0  (E)
SOLUBPNT=  SOLUBTMP=  A =  E =  AVP = 10.12
BVP = 2455.  CVP = 0.4004E-01  VFUPRBND= 473.2  VPLWRBND= 293.2  AVCP =  VHCLOBND=
BVCP =  CVCV =  DVCP =  VHCUPBND=
HTFUSION=  LHTVAPOR= 0.3203E+06  HTCOMBTN= -0.4300E+08(E)  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR=  LOFLMLIM= 0.8000  UPFLMLIM= 5.000  BURNRATE=
TOXINHAL= 25.00  INHALCNC=  INHALTME=  LOTOXLIM= 0.5000E-03  UPTOXLIM= 0.5000E-02
LAETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
THR    CHEMNAME = THIRAM                                PATHCODE = II
MOLECW = 240.4      NBP = 422.0      (E) CRITTEMP=
DENSITY = 1430.     DENSTEMP= 293.1  SHPSTATE=S    ARHO =
CRHO =              LDUPRBN=          LDWISPT=      LOVISIMP=
AVIS =              BVIS =            LUPRBN=        LQTHRCND=
LTHCNTMP=           ACON =            LTCUPBND=      LTCLOBND=
LQHTCPPT=           LOHTCPTM=          BHC =         LHCUPBND=
LHCLOBND=           SURFTENS=          SFTNTEMP=      INTFTIMP=
SOLUBPNT=           SOLUBTMP=          A =           AVP =
BVP =              CVP =              VFUPRBN=       AVCP =
BVCP =              CVCP =            DVCP =         VHCLOBND=
HTFUSION=           LHTVAPOR=          HTCOMSTN=      HTSOLUTN=
HTREACTN=           HTPOLYMR=          LOFLMLIM=      BURNRATE=
TOXINHAL= 0.4660    INHALCNC=          INHALTME=      UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=           MOLRATIO=      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TIA  CHEMNAME = TRIISOBUTYLALUMINUM      PATHCODE = A  O  Z
MOLECWT = 198.3      NBP = 485.0      CRITPRES=
DENSITY = 788.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1101.      BRHO = -1.070
CRHO = 0.0000E+00      LDUPREND= 373.1      LDWRBND= 274.1      LQVISINT= 0.2300E-02      LQVISTMP= 293.1
AVIS = -13.13      BVIS = 2068.      LVUPREND= 353.1      LVLWRBND= 283.1      LQTHRCND= 0.1628      (E)
LTHCNTMP= 293.1      ACON = 0.1628      (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1      LTCLOBND= 283.1
LQHTCPPT= 2240.      LQHTCPTM= 293.1      AHC = 1013.      (E) BHC = 4.187      (E) LHCUPBND= 303.1
LHCLOBND= 283.1      SURFTENS= 0.2400E-01(E) SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.472
BVP = 1842.      CVP = -73.15      VFUPREND= 363.1      VPLWRBND= 328.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2300E+06      HTCOMBNTN= -0.4282E+08      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      UPFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TLI  CHEMNAME = O-TOLUIDINE
      PATHCODE = A P Q T U X Y
      MOLEWT = 107.2 NBP = 473.0 CRITTEMP= 694.0 CRITPRES= 0.3750E+07
      DENSITY = 998.0 DENSTEMP= 293.1 SHPSRATE=L ARHO = 1233. BRHO = -0.8000
      CRHO = 0.0000E+00 LDUPRND= 303.1 LDWRBND= 273.1 LQVISPAT= 0.4430E-02 LQVISTMP= 293.1
      AVIS = -14.35 BVIS = 2618. LVUPRND= 323.1 LVLWRBND= 283.1 LQTHRCND= 0.1512 (E)
      LTHCNTMP= 293.1 ACON = 0.1512 (E) BCON = 0.0000E+00(E) LTCUPBND= 303.1 LTCLOBND= 278.1
      LQHTCPPT= 2052. LQHTCPTM= 293.1 AHC = 2052. BHC = 0.0000E+00 LHCUPBND= 338.1
      LHCLOBND= 288.1 SURFTENS= 0.4355E-01 SFTNTMP= 293.1 INTFTENS= INTFTTMP=
      SOLUBPNT= 1.800 (E) SOLUBTMP= 303.1 A = = B = = 10.67
      BVP = 2680. CVP = -0.1500 VFUPRND= 473.1 VPLWRBND= 373.1 AVCP = =
      BVCP = CVCP = DVCP = VHCUPBND= VHCLOBND=
      HTFUSION= LHTVAPOR= 0.4160E+06 HTCOMBTN= -0.3760E+08 HTSOLUTN=
      HTREACTN= LHTPOLYMR= LOFLMLIM= UPFLMLIM=
      TOXINHAL= 5.000 INHALCNC= INHALTME= LOTOXLIM= 0.5000E-03 BURNRATE= 0.6045E-04
      LAFETOX = ABFLWTMP= MOLRATIO= AIRFUEL = UPTOXLIM= 0.5000E-02
      MOLFRAC = FLMETEMP=
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TLO  CHEMNAME = TALLOW                PATHCODE = A  T  U
MOLEWT =                               NFP = 280.0 (E) CRITTEMP=      CRITPRES=
DENSITY = 850.0 (E) DENSTEMP= 343.2  SHPSRATE=L  ARHO = 870.0 (E) BRHO = 0.0000E+00(E
CRHO = 0.0000E+00(E) LDUPREND= 390.0 (E) LDLWRBND= 350.0 (E) LQVISFNT= 0.1650E-01(E) LQVISTMP= 373.2
AVIS = BVIS = LVUPRBNBND= LVLRBNBND= LOTHRCND= 0.1500 (E
LTHCNTMP= 300.0 (E) ACCN = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBNBND= 310.0 (E) LTCLOBND= 290.0 (E
LQHTCPPT= 2000. (E) LQHTCPTM= 370.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBNBND= 400.0 (E
LHCLOBND= 360.0 (E) SURFTENS= 0.3000E-01(E) SFTNTEMP= 370.0 (E) INTFTENS= 0.4000E-01(E) INTFTTMP= 373.0 (E
SOLUBPNT= A = B = AVP =
BVP = VFUPRBNBND= VPLWRBNBND= AVCP =
BVCP = CVCP = VHCUPBNBND= VHCLOBND=
HTFUSION= HTCVAPOR= HTCOMBNTN= -0.4200E+08(E) HTDECOMP= HTSOLUTN=
HTREACTN= LOPFLMLIM= UPFLMLIM= BURNRATE=
TOXINHAL= INHALCNC= LOTOXLIM= 0.1500E-01(E) UPTOXLIM=
LATETOX = ABFLMTMP= MOLRATIO= AIRFUEL =
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TMA  CHEMNAME = TRIMETHYLAMINE
      MOLEWT = 59.11      NBP = 276.1      NFP = 156.1      CRITTEMP= 433.3      CRITPRES= 0.4070E+07
      DENSITY = 633.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 984.8      BRHO = -1.200
      CRHO = 0.0000E+00      LDUPRBND= 308.2      LDLWRBND= 258.2      LOVISPNT=      LOVISTMP=
      AVIS =      BVIS =      LVUPRBND=      LVLWRBND=      LOTHRCND=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=      LTCLOBND=
      LQHTCPPT= 2273.      LQHTCPIM= 293.2      AHC = 555.1      BHC = 5.862      LHCUPBND= 353.2
      LHCLOBND= 253.2      SURFTENS= 0.1740E-01      SFTNIEMP= 269.2      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.725
      BVP = 1303.      CVP = 0.4004E-01      VUPRBND= 303.2      VPLWRBND= 203.2      AVCP = 8499.
      BVCP = 220.0      CVCP = -0.5652E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION= 0.1105E+06      LHTVAPOR= 0.4040E+06      HTCOMSTN= -0.4107E+08      HTDECOMP=      HTSOLUTN= -0.8960E+06
      HTREACTN=      HTPOLYMR=      LOFLMLIM= 2.000      UPFLMLIM= 11.60      BURNRATE= 0.1333E-03
      TOXINHAL=      INHALTME=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLMTMP=      MOLRATIO= 0.7813      (E) AIRFUEL = 12.19      (E) FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TMC CHEMNAME = TRIMETHYLCHLOROSILANE PATHCODE = A 0

MOLEWT =	108.7	NBP =	330.0	CRITTEMP =		CRITPRES =	
DENSITY =	846.0	DENSTEMP =	298.1	SHPSSTATE =	L	ARHO =	1143. (E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LDUPRBND =	303.1	LDLWRBND =	278.1	LOVISTMP =	
AVIS =		BVIS =		LVUPRBND =		LQTHRCND =	0.1396 (E)
LTHCNTMP =	293.1	ACON =	0.1396 (E)	BCON =	0.0000E+00(E)	LTCLOBND =	283.1
LOHTCPTP =	1465. (E)	LOHTCPTM =	293.1	AHC =	1465. (E)	LHCUPBND =	298.1
LHCLOBND =	283.1	SURFTENS =	0.2500E-01(E)	SFTNTMP =	293.1	INTFTTMP =	
SOLUBPNT =		SOLUBTMP =		A =		AVP =	10.03 (E)
BVP =	1658. (E)	CVP =	-0.1500 (E)	VFUPRBND =	333.1	AVCP =	0.7905E+05(E)
BVCP =	174.2 (E)	CVCP =	0.0000E+00(E)	DVCP =	0.0000E+00(E)	VHCLOBND =	300.0
HTFUSION =		LHTVAPOR =	0.2900E+06	HTCON3TN =	-0.2400E+08(E)	HTSOLUTN =	
HTREACTN =		HTPOLYMR =		LOFLVLIM =	1.800	BURNRATE =	0.8851E-04
TOXINHAL =		INHALCNC =		INHALTIME =		UPTOXLIM =	0.5000E-02
LAFETOX =		ABFLMTMP =		MOLRATIO =		FLMETEMP =	
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TML  CHEMNAME = TETRAMETHYL LEAD          PATHCODE = A  X  Y
MOLEWT = 267.3 (E) NBP = 383.0 NFP = 245.7 CRITTEMP = CRITPRES =
DENSITY = 2000. DENSTEMP = 293.2 SHPSTATE=L ARHO = 2000. (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRBD = 303.0 (E) LDLPRBD = 283.0 (E) LQVISPNT = 0.7500E-03(E) LQVISTMP = 293.0 (E)
AVIS = -11.70 (E) BVIS = 1320. (E) LVUPRBD = 303.0 (E) LVLWRBD = 283.0 (E) LQTHRCND = LTCLOBND =
LTHCNTMP = ACON = BCON = LTCUPBD = LTCLOBND =
LOHTCPPT = 2500. (E) LOHTCPTM = 293.0 (E) AHC = 2500. (E) EHC = 0.0000E+00(E) LHCUPBD = 313.0 (E)
LHCLOBND = 283.0 (E) SURFTENS = 0.4000E-01(E) SFTNTMP = 293.0 (E) INTFTENS = 0.4000E-01(E) INTFTTMP = 293.0 (E)
SOLUBPNT = SOLUBTMP = A = B = AVP = 9.706 (E)
BVP = 1800. (E) CVP = 0.0000E+00(E) VFUPRBD = 383.0 (E) VPLWRBD = 300.0 (E) AVCP =
BVCP = CVCP = DVCP = VHCUPBD = VHCLOBND =
HTFUSION = LHTVAPOR = 0.1290E+05(E) HTCOMBNTN = -0.1230E+08(E) HTDECOMP = HTSOLUTN =
HTREACTN = LOPOLYMR = LOFLMLIM = UPFLMLIM = BURNRATE =
TOXINHAL = 0.1260E-01(E) INHALCNC = INHALTME = LOTOXLIM = UPTOXLIM =
LATETOX = ABFLNTMP = MOLRATIO = AIRFUEL =
MOLFRAC =

```

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TOL  CHEMNAME = TOLUENE
*****
MOLECW = 92.14      NBP = 383.8      CRITTEMP = 591.8      CRITPRES = 0.4108E+07
DENSITY = 867.0      DENSTEMP = 293.2      ARHO = 1131.      BRHO = -0.9000
CRHO = 0.0000E+00    LDUPREND = 323.2      LDWREND = 233.2      LOVISINT = 0.5870E-03      LOVISIMP = 293.2
AVIS = -11.15        BVIS = 1090.          LVUPRSND = 313.2      LQTHRCND = 0.1372
LTHCNTMP = 293.2     ACON = 0.2193         BCON = -0.2791E-03    LTCLOBND = 253.2
LQHTCPPT = 1738.     LQHTCPTM = 293.2      AHC = 1124.          BHC = 2.093            LHCUPBND = 333.2
LHCLOBND = 253.2     SURFTENS = 0.2900E-01      SFTNTEMP = 293.2     INTFTENS = 0.3610E-01      INTFTIMP = 298.2
SOLUBPAT = 0.5000E-01      SOLUBTMP = 293.2      A = 9.080            AVP = 9.080
BVP = 1345.          CVP = -53.66          VFUPRSND = 373.2     VPLWRBND = 253.2         AVCP = -0.2211E+05
BVCP = 481.1         CVCP = -0.1968         DVCP = 0.0000E+00     VHCUPBND = 600.0         VHCLOBND = 250.0
HTFUSIGN = LHTVAPOR = 0.3605E+06      HTCOMSTN = -0.4055E+08      HTDECONP = HTSOLUTN =
HTREACTN = HTPOLYMR = INHALCNC = 600.0      INHALTME = 1800.      LOTOXLIM = 0.5000E-03      UPTOXLIM = 0.5000E-02
TOXINHAL = 100.0      ABFLMTMP = MOLRATIO =      AIRFUEL =
LAFETOX =
MOLFRAC =
*****
PATHCODE = A T U
*****

```

PATHCODE	A	O	X	Y
----------	---	---	---	---

MOLECWt =	115.0	NBP	=	346.0	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	1510.	DENSTEMP=	288.1	SHRSTATE=L	SHRSTATE=L	1803.	ARHO =	(E) BRHO = -1.000 (E)
CRHO =	0.0000E+00(E)	LDUPREND=	298.1	LDLWRBND=	273.1	LOVISTMP=	LOVISTMP=	
AVIS =		BVIS =		LVUPRBND=		LOTHRCND=	LOTHRCND=	0.1279 (E)
LTHCNTMP=	293.1	ACON =	0.1279	(E) BCON =	0.0000E+00(E)	LTCUPBND=	298.1	LTCLOBND= 283.1
LOHTCPPT=		LOHTCPMT=		AHC =		BHC =		LHCUPBND=
LHCLOBND=		SURFTENS=	0.2500E-01(E)	SFTNTIMP=	293.1	INTFTENS=		INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =		B =		AVP = 10.14 (E)
BVP =	1775.	(E) CVP =	-0.1500	(E) VFUPRBND=	353.1	VPLWRBND=	323.1	AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=		VHCLOBND=
DIFFUSION=		LHTVAPOR=	0.3000E+06(E)	HTCOM9TN=	-0.8000E+07(E)	HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=		BURNRATE=
TOXINHAL=		INHALCNC=		INHALTWE=		LOTOXLIM=		UPTOXLIM=
LAFETOX =		ABFLWTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=
MOLFRAC =								

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TPH    CHEMNAME = TRICHLOROPHENOL
      MOLECW = 197.5    NBP = 525.0    PATHCODE = II
      DENSITY = 1700.    DENSTEMP = 298.2    SHPSTATE=S
      CRHO =          LDUPRBN =          LQWRBN =          LQVSPNT =          CRITTEMP =
      AVIS =          BVIS =          LVUPRBN =          LVLWRBN =          ARHO =
      LTHCNTMP =          ACON =          BCON =          LTCUPBN =          LOVISTMP =
      LQHTCPPT =          LQHTCPTM =          AHC =          LTCUPBN =          LQTHRCND =
      LHCLOBND =          SURFTENS =          SFTNTMP =          INTFTIMP =          LTCLOBND =
      SOLUBPNT = 0.1000 (E) SOLUBTMP = 298.2    A =          B =          AVP =
      BVP =          CVP =          VFUPRBN =          VPLWRBN =          AVCP =
      BVCP =          CVCP =          DVCP =          VHCUPBN =          VHCLOBND =
      HTFUSION =          LHTVAPOR =          HTCONSTN =          HTSOLUTN =          HTDECON =
      HTREACTN =          HTPOLYMR =          LOFLWLM =          UPFLWLM =          BURNRATE =
      TOXINHAL =          INHALCNC =          INHALTME =          LOTOXLM =          UPTOXLM =
      LATETOX =          ABFLMTMP =          MOLRATIO =          AIRFUEL =          0.5000E-03
      MOLFRAC =
      0.5000E-02
      FLMETEMP =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TPO  CHEMNAME = TRIS(AZIRIDINYL)PHOSPHINE OXIDE      PATHCODE = SS
      MOLEWT = 173.2      NBP =      NFP = 314.0
      DENSITY = 1000.      (E) DENSTEMP = 293.1      SHPSSTATE=S
      CRHO =      LDUPREND=      LDLRBND=
      AVIS =      BVIS =      LVUPREND=      LOVISPT=
      LTHCNTMP=      ACON =      BCON =      LTCUPBND=
      LOHTCPPT=      LOHTCPTM=      AHC =      LTCLOBND=
      LHCLOBND=      SURFTENS=      SFTINTENS=      LHCUPBND=
      SOLUBPNT=      SOLUBTMP=      A =      INTFTTMP=
      BVP =      CVP =      VFUPREND=      AVP =
      BVCP =      CVCP =      DVCP =      VPLWRBND=
      HTFUSION=      LHTVAPOR=      HTCOMBNTN=      VHCLOBND=
      HTREACTN=      HTPOLYMR=      LOFLWLIM=      HTSOLUTN=
      TOXINHAL=      INHALCNC=      INHALTME=      BURNRATE=
      LATETOX =      ABFLNTMP=      MOLRATIO=      UPTOXLIM= 0.5000E-04
      MOLFRAC =      0.5000E-03      FLMETEMP=

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
TPT  CHEMNAME = TURPENTINE          PATHCODE = A T U
MOLEWT =      NBP      = 423.0 (E) NFP      =      CRITTEMP=
DENSITY = 860.0      DENSTEMP= 288.2      SHPSTATE=L      ARHO      = 860.0 (E) BRHO      = 0.0000E+00(E)
CRHO      = 0.0000E+00(E) LDUPRND= 293.0 (E) LQWRSND= 273.0 (E) LQVISPT= 0.2000E-02(E) LQVISTMP= 293.0 (E)
AVIS      = -13.40 (E) BVIS      = 2100. (E) LVUPRND= 293.0 (E) LVLWRSD= 273.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 293.0 (E) ACON      = 0.1500 (E) BCON      = 0.0000E+00(E) LTCUPBD= 293.0 (E) LTCLOBND= 273.0 (E)
LQHTCPPT= 2000. (E) LQHTCPTM= 293.0 (E) AHC      = 2000. (E) BHC      = 0.0000E+00(E) LHCUPBND= 293.0 (E)
LHCLOBND= 273.0 (E) SURFTENS= 0.2000E-01(E) SFTNTMP= 293.0 (E) INTFTENS= 0.5000E-01(E) INTFTTMP= 293.0 (E)
SOLUBPNT=      SOLUBTMP=      A      =      B      =      AVP      = 9.655 (E)
BVP      = 1990. (E) CVP      = 0.0000E+00(E) VFUPRND= 430.0 (E) VPLWRSD= 300.0 (E) AVCP      =
BVCP      =      CVCP      =      DVCP      =      VHCUPBD=
HTFUSION=      LHTVAPOR= 0.2800E+06(E) HTCONVTN= -0.4500E+08(E) HTDECCNP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLM= 0.8000      UPFLMLIN=      BURNRATE=
TOXINHAL= 100.0      INHALCNC= 200.0      INHALTME= 1800.      LOTOXLIM= 0.5000E-03      UPTOXLIM= 0.5000E-02
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```
*****
TRN  CHEMNAME = THORIUM NITRATE          PATHCODE = SS
      MOLECW = 555.2      NBP =          CRITTEMP=
      DENSITY = 1000.      (E) DENSITY= 293.1  ARHO =
      CRHO =              LDUPREND=          LOVISPT=
      AVIS =              BVIS =            LVLWRBND=
      LTHCNTMP=          ACON =            LTCUPBND=
      LQHTCPPT=          LQHTCPTM=          BHC =
      LHCLOBND=          SURFTENS=          INTFTEMP=
      SOLUBPNT=          SOLUBTMP=          B =
      BVP =              CVP =            VPLWRBND=
      BVCP =              CVCP =          VHCUPBND=
      HTFUSION=          LHTVAPOR=        HTSOLUTN=
      HTREACTN=          HTPOLYMR=        UPFLMLIM=
      TOXINHAL=          INHALCNC=        LOTOXLIM=
      LAETOX =          ABFLWTMP=        AIRFUEL =
      MOLFRAC =
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TTD  CHEMNAME = 1-TETRADECENE      PATHCODE = A  T  U
MOLEWT = 196.4      NEP = 524.3      NFP = 260.3      CRITTEMP=
DENSITY = 771.0      DENSTEMP= 293.2      SHPSTATE=L      ARHO = 1005.      BRHO = -0.8000
CRHO = 0.0000E+00      LDUPRBD= 353.2      LDLWRBD= 273.2      LOVISFNT= 0.2010E-02      LOVISTMP= 293.2
AVIS = -12.69      BVIS = 1900.      LVUPRBD= 303.2      LVLWRBD= 273.2      LQTHRCND= 0.1500      (E)
LTHCNTMP= 293.0      (E) ACON = 0.1500      (E) BCON = 0.0000E+00(E)      LTCUPBD= 298.0      (E) LTCLOBND= 278.0      (E)
LQHTCPT= 1897.      LQHTCPTM= 393.2      AHC = 1897.      BHC = 0.0000E+00      LHCUPBD= 323.2
LHCLOBND= 273.2      SURFTENS= 0.2500E-01      SFTNIEMP= 293.2      INTFTENS= 0.4500E-01(E)      INTFTTMP= 293.0      (E)
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.086
BVP = 1700.      CVP = -108.0      VFUPRBD= 533.2      VPLWRBD= 373.2      AVCP = 0.2437E+05
BVCP = 1093.      CVCP = -0.3873      DVCP = 0.0000E+00      VHCUPBD= 600.0      VHCLOBND= 250.0
HTFUSICN=      LHTVAPOR= 0.2391E+06      HTCOMBNT= -0.4094E+08      HTDECOMP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLWLIM=      UPFLWLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LATETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TTE CHEMNAME = TETRACHLOROETHYLENE

PATHCODE = A X

MOLEWT = 165.8	NBP = 394.0	NFP = 250.8	CRITTEMP = 620.0	CRITPRES =
DENSITY = 1630.	DENSTEMP = 293.2	SHSTATE=L	ARHO = 2124.	BRHO = -1.700
CRHO = 0.0000E+00	LDUPRND = 353.2	LDLWRND = 273.2	LQVISPT = 0.8410E-03	LQVISTMP = 298.2
AVIS = -10.24	BVIS = 940.0	LVUPRND = 353.2	LVLWRND = 283.2	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPRND =	LTCLOBND =
LQHTCPPT = 862.5	LQHTCPTM = 293.2	AHC = 617.0	BHC = 0.8374	LHCUPRND = 373.2
LHCLOBND = 253.2	SURFTENS = 0.3130E-01	SFTNTEMP = 293.2	INTFTENS = 0.4000E-01(E)	INTFTTMP = 293.0 (E)
SOLUBPNT = 0.1650E-01	SOLUBTMP = 293.2	A =	B =	AVP = 10.09
BVP = 1986.	CVP = 0.4004E-01	VFUPRND = 413.2	VFLWRND = 288.2	AVCP = 0.3148E+05
BVCP = 206.4	CVCP = -0.1424	DVCP = 0.0000E+00	VHCUPRND = 600.0	VHCLOBND = 250.0
HTFUSION =	LHTVAPOR = 0.2098E+06	HTCONSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIM =	UPFLWLIM =	BURNRATE =
TOXINHAL = 100.0	INHALCNC =	INHALTME =	LOTOXLIM = 0.5000E-03	UPTOXLIM = 0.5000E-02
LATEOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/20/26 PAGE404/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TTG	CHEMNAME = TETRAETHYLENE GLYCOL	PATHCODE = A P Q	
MOLEWT =	194.2	NBP =	600.0
DENSITY =	1120.	DENSTMP =	293.1
CRHO =	0.0000E+00	LDUPRBND =	303.1
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LQHTCPPT =		LQHTCPTM =	
LHCLOBND =		SURFTENS =	0.1881E-01
SOLUBPNT =		SOLUBTMP =	
BVP =		CVP =	
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	269.0
		SHPSTATE=L	
		LDLWRBND =	273.1
		LVUPRBND =	
		BCON =	
		AHC =	
		SFTNTMP =	600.1
		A =	
		VFUPRBND =	
		DVCP =	
		HTCOMSTN =	-0.2450E+08
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		ARHO =	1413.
		LQVISPT =	0.4460E-01
		LVLWRBND =	
		LTCUPBND =	
		BHC =	
		INTFTTMS =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.1500E-01(E)
		AIRFUEL =	
		FLMETEMP =	
		BRHO =	-1.000
		LQVISTMP =	298.1
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	
		INTFTTMS =	
		AVP =	
		AVCP =	
		VHCLOBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.1500E-01(E)
		AIRFUEL =	
		FLMETEMP =	

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TTP	CHEMNAME = TETRAETHYLENEPENTAMINE	PATHCODE = A P Q					
MOLECW	= 189.0	NBP	= 613.0	NFP	= 243.0	CRITTEMP=	CRITPRES=
DENSITY	= 998.0	DENSTEMP	= 293.1	SHPSTATE=L		APHO	= BRHO
CRHO	=	LDUPREND		LDLWREND		LOVISPT	= LOVISMP
AVIS	=	BVIS	=	LVUPREND		LVLRSD	= LQTHRCND
LTHCNTMP	=	ACON	=	BCON	=	LTCUPSD	= LTCLOBND
LOHTCPPT	=	LOHTCPTM	=	AHC	=	BHC	= LHCUPBND
LHCLOBND	=	SURFTENS	=	SFTNTEMP	=	INTFTENS	= INTFTTMP
SOLUBPNT	=	SOLUBTMP	=	A	=	B	= AVP
BVP	=	CVP	=	VFUPREND		VPLWRSD	= AVCP
BVCP	=	CVCP	=	DVCP	=	VHCUPSD	= VHCLOBND
HTFUSION	=	LHTVAPOR	=	HTCONSTN	=	HTDECONP	= HTSOLUTN
HTREACTN	=	HTPOLYMR	=	LOFLMLIM	= 0.8000	(E) UPFLMLIN	= 4.600 (E) BURNRATE
TOXINHAL	=	INHALCNC	=	INHALTME	=	LOTOXLIM	= 0.5000E-03 UPTOXLIM
LAFETOX	=	ABFLMTMP	=	MOLRATIO	=	AIRFUEL	= FLMETEMP
MOLFRAC	=						

0.5000E-02

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

TTT  CHEMNAME = TITANIUM TETRACHLORIDE          PATHCODE = A  0
MOLEWT = 189.7      NBP = 409.0
DENSITY = 1726.      DENSTEMP= 293.2      SHPSTATE=L      NFP = 249.0      CRITTEMP=
CRHO = 0.0000E+00    LDUPRND= 323.2      DLWRBND= 273.2      LOVISPNT=      ARHO = 2224.      BRHO = -1.700
AVIS =              BVIS =              LVUPRND=              LVLWRBND=      LOVISTMP=
LTHCNTMP=            ACON =              BCON =              LTCUPBND=      LQTHRCND=
LQHTCPT= 795.5      LQHTCPTM= 293.2      AHC = 795.5      BHC = 0.0000E+00    LHCUPBND= 373.2
LHCLOBND= 273.2      SURFTENS=      SFTNTEMP=      INTFTENS=      INTFTTMP=
SOLUBPNT=            SOLUBTMP=      A =              B =      AVP = 9.517 (E)
BVP = 1845. (E) CVP = 0.0000E+00(E) VFUPRND= 409.0 (E) VPLWRBND= 350.0 (E) AVCP = 0.4600E+05(E)
BVCP = 0.0000E+00(E) CVCP = 0.0000E+00(E) DVCP = 0.0000E+00(E) VHCUPBND= 350.0 (E) VHCLOBND= 300.0 (E)
HTFUSION=            LHTVAPOR= 0.1855E+06      HTCOWBNTN=      HTSOLUTN=
HTREACTN= -0.1122E+07      HTPOLYMR=      LOFLMLIM=      HTDECOMP=      BURNRATE=
TOXINHAL=            INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
LAFETOX =            ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

TAP		CHEMNAME = TOXAPHENE		PATHCODE = II A T U		
MOLECW	= 414.0	NBP	=	NFP	= 363.0	CRITPRES=
DENSITY	= 1600.	DENSTEMP	= 288.2	SHFSTATE=S		BRHO =
CRHO	=	LDUPREND	=	LDLWRBND	=	LOVISIMP=
AVIS	=	BVIS	=	LVUPREND	=	LOTHRCND=
LTHCNTWP	=	ACON	=	BCON	=	LTCLOBND=
LQHTCPPT	=	LQHTCPTM	=	AHC	=	LHCUPBND=
LHCLOBND	=	SURFTENS	=	SFTNTEMP	=	INTFTIMP=
SOLUBPNT	= 0.3000E-03	SOLUBTMP	= 293.2	A	=	AVP =
BVP	=	CVP	=	VFUPREND	=	AVCP =
BVCP	=	CVCP	=	DVCP	=	VHCLOBND=
HTFUSION	=	LHTVAPOR	=	HTCOASTN	=	HTSOLUTN=
HTREACTN	=	HTPOLYMR	=	LOFLMLIM	=	BURNRATE= 0.9667E-04
TOXINHAL	=	INHALCNC	=	INHALTME	=	UPTOXLIM= 0.5000E-04(E)
LATETOX	=	ABFLMTMP	=	MOLRATIO	=	FLMETEMP=
MOLFRAC	=					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
UAN    CHEMNAME = URANYL NITRATE          PATHCODE = SS
MOLECW = 502.1      NBP =      CRITPRES=
DENSITY = 2810.     DENSTEMP= 286.1  CRITTEMP=
CRHO =      LDUPRND=      BVIS =      ARHO =
AVIS =      BVIS =      ACON =      LQVISTMP=
LTHCNTMP=      LQHTCPPT=      SURFTENS=      LQTHRCND=
LHCLOBND=      SOLUBPNT= 60.00      293.1  LTCLOBND=
BVP =      CVP =      CVCV =      LHCUPBND=
BVCV =      LHTVAPOR=      HTPOLYMR=      INTFTIMP=
HTFUSION=      HTPOLYMR=      INHALCNC=      AVP =
HTREACTN=      TOXINHAL= 0.2200E-02      0.5000E-04  AVCP =
LAFETOX =      ABFLMTMP=      MOLFRAC =      VHCLOBND=
MOLFRAC =      MOLFRAC =      MOLRATIO=      HTSOLUTN=
      MOLFRAC =      MOLRATIO=      MOLRATIO=      BURNRATE=
      MOLFRAC =      MOLRATIO=      MOLRATIO=      UPTOXLIM= 0.5000E-03
      MOLFRAC =      MOLRATIO=      MOLRATIO=      FLMETEMP=
      MOLFRAC =      MOLRATIO=      MOLRATIO=
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

UDB  CHEMNAME = N-UNDECYLBENZENE          PATHCODE = A T U
MOLEWT = 232.4      NBP = 589.0      NFP = 268.0      CRITTEMP= 765.5      CRITPRES= 0.1610E+07
DENSITY = 855.0      DENSTEMP= 293.1      SHPSTATE=L      ARHO = 1060.      BRHO = -0.7000
CRHO = 0.0000E+00      LDUPREND= 303.1      LDLWRBND= 283.1      LOVISPAT= 0.4570E-02      LOVISTMP= 293.1
AVIS = -12.61      BVIS = 2117.      LVUPRBND= 323.1      LVLWRBND= 283.1      LQTHRCND=
LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
LOHTCPPT=          LOHTCPTM=          AHC =          BHC =          LHCUPBND=
LHCLOBND=          SURFTENS=          SFTNTMP=          INTFTENS=          INTFTTMP=
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VUPRBND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR= 0.2354E+06      HTCOMBNTN= -0.4531E+08      HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

AD-A034 607

LITTLE (ARTHUR D) INC CAMBRIDGE MASS
CHRIS/HACS CHEMICAL PROPERTY FILE (U)
DEC 76 E ATKINSON

F/G 7/2

UNCLASSIFIED

USCG-D-124-76

DOT-CG-24655-A

NL

10 OF 10
AD-A
034 607



END
DATE
FILMED
3-1-77
NTIS

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

UDC CHEMNAME = 1-UNDECENE

PATHCODE = A T U

MOLECWT =	154.2	NBP =	465.9	NFP =	224.0	CRITTEMP=	CRITPRES=
DENSITY =	750.0	DENSTEMP=	293.2	SHPSTATE=L		ARHO =	BRHO = -0.3000
CRHO =	0.0000E+00	LDUPRBND=	303.2	LDLWRBND=	273.2	LQVISPT=	LQVISTMP= 293.2
AVIS =	-12.00	BVIS =	1500.	LVUPRBND=	303.2	LVLWRBND=	LQTHRCND= 0.1500 (E)
LTHCNTMP=	293.0 (E)	ACON =	0.1500	(E) BCON =	0.0000E+00(E)	LTCUPBND=	LTCLOBND= 273.0 (E)
LQHTCPPT=	2010.	LQHTCPTM=	293.2	AHC =	2010.	BHC =	LHCUPBND= 323.2
LHCLOBND=	273.2	SURFTENS=	0.2340E-01	SFTNTEMP=	293.2	INTFTENS=	INTFTTMP= 293.0 (E)
SOLUBPNT=		SOLUBTMP=		A =		S =	AVP = 9.091
BVP =	1562.	CVP =	-83.46	VFUPRBND=	503.2	VPLWRBND=	AVCP = 0.1926E+05
BVCP =	852.9	CVCP =	-0.3014	DVCP =	0.0000E+00	VHCUPBND=	VHCLOBND= 250.0
HTFUSION=		LHTVAPOR=	0.3592E+06	HTCOMBSTN=	-0.4439E+08	HTDECOMP=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLWLIM=		UPFLWLIM=	BURNRATE= 0.8000E-04
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	UPTOXLIM=
LAFETOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =	FLMETEMP=
MOLFRAC =							

UND CHEMNAME = UNDECANOL

PATHCODE = A T U

[illegible]

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

UPO CHEMNAME = UREA PEROXIDE PATHCODE = SS

MOLEWT = 94.10	NBP =	NFP =	CRITEMP=	CRITPRES=
DENSITY = 800.0	DENSTEMP= 293.1	SHPS:ATE=S	ARHO =	BRHO =
CRHO =	LDUPRND=	LDLWRND=	LQVISPNT=	LQVISTMP=
AVIS =	BVIS =	LVUPRND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPTM=	LQHTCPTM=	AHC =	BHC =	LHCUPEND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 51.00	SOLUBTMP= 293.1	A = -151.4	B = 0.6900	AVP =
BVP =	CVP =	VFUPRND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCONSTN=	HTDECOMP= -0.1250E+07	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LATEFOX =	ABFLWTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

URA	CHEMNAME = URANYL ACETATE	PATHCODE = SS	
MOLEWT = 424.2	NBP =	NFP =	CRITTEMP=
DENSITY = 2890.	DENSTEMP= 293.1	SHPSTATE=S	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LOVISTMP=
AVIS =	BVIS =	LVUPRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTTMP=
SOLUBPNT= 8.400	SOLUBTMP= 290.1	A =	AVP =
BVP =	CVP =	VFUPREND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLWLM=	BURNRATE=
TOXINHAL= 0.1000E-01	INHALCNC=	INHALTME=	UPTOXLIM= 0.1500E-01
LAFETOX =	ABFLMTMP=	MOLRATIO=	FLMETEMP=
MOLFRAC =			

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
URE      CHEMNAME = UREA      PATHCODE = SS
MOLECWt = 60.06      NFP      = 406.0
DENSITY = 1340.      SHSTATE=S
CRHO     =           LDWRBND=
AVIS     =           LVUPRND=
LTHCNTMP=           BCON   =
LQHTCPPT=           AHC    =
LHCLOBND=           SFTNTMP=
SOLUBPNT=           A      = -558.9
BVP      =           VFUPRND=
BVCP     =           DVCP   =
HTFUSION= 0.2420E+06  HTCOMBTN= -0.9102E+07
HTREACTN=           LOFLMLIM=
TOXINHAL=           INHALTME=
LATETOX  =           ABFLMTMP=
MOLFRAC  =           MOLRATIO=

CRITPRES=
BRHO     =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP      = 2.290
AVCP     =
VHCLOBND=
HTSOLUTN= -0.2516E+06
BURNRATE=
UPTOXLIM=
FLMETEMP=

```


PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VAM  CHEMNAME = VINYL ACETATE
*****
      PATHCODE = A  P  Q  R  S  Z
MOLECWT = 86.09  NBP = 346.1  CRITTEMP= 525.0  CRITPRES= 0.4250E+07
DENSITY = 934.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1374.  BRHO = -1.500
CRHO = 0.0000E+00  LDUPRBD= 313.2  LDWRBND= 273.2  LQVISPNT= 0.4320E-03  LOVISTMP= 293.2
AVIS = -10.97  BVIS = 944.0  LVUPRBD= 373.2  LVLWRBND= 273.2  LQTHRCND= 0.1465
LTHCNTMP= 293.2  ACON = 0.2595  BCON = -0.3838E-03  LTCUPBND= 373.2  LTCLOBND= 253.2
LQHTCPPT= 1758.  LQHTCPTM= 293.2  AHC = 1145.  BHC = 2.093  LHCUPBND= 323.2
LHCLOBND= 253.2  SURFTENS= 0.2395E-01  SFTNTMP= 293.2  INTFTENS= 0.3000E-01(E)  INTFTTMP= 293.0  (E
SOLUBPNT= 2.300  SOLUBTMP= 293.2  A =  =  B =  AVP = 9.117
BVP = 1192.  CVP = -56.16  VFUPRBD= 363.2  VPLWRBND= 253.2  AVCP = 0.1516E+05
BVCP = 279.3  CVCP = -0.8792E-01  DVCP = -0.1675E-04  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3793E+06  HTCOMBTN= -0.2269E+08  HTDECOMP=  HTSOLUTN=
HTREACTN=  HTPOLYMR= -0.1022E+07  LOFLMLIM= 2.600  UPFLMLIM= 13.40  BURNRATE= 0.6333E-04
TOXINHAL= 10.00  INHALCNC=  INHALTME=  LOTOXLM= 0.5000E-03  UPTOXLM= 0.5000E-02
LATETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

VCI CHEMNAME = VINYLIDENECHLORIDE, INHIBITED PATHCODE = A X Y Z
 MOLEWT = 96.95 NBP = 304.8 NFP = 151.2 CRITTEMP = CRITPRES =
 DENSITY = 1210. DENSTEMP = 293.2 SHPSSTATE=L ARHO = 1769. BRHO = -1.900
 CRHO = 0.0000E+00 LDUPRBND = 303.2 LDLWRBND = 243.2 LQVISPNT = 0.3300E-03 LQVISTMP = 293.2
 AVIS = -9.938 BVIS = 560.0 LVUPRBND = 303.2 LVLWRBND = 243.2 LQTHRCND =
 LTHCNTMP = ACON = LTCUPBND = LTCLOBND =
 LQHTCPPT = 1256. LQHTCPTM = 293.2 AHC = 28.64 BHC = 4.187 LHCUPBND = 373.2
 LHCLOBND = 253.2 SURFTENS = 0.2400E-01 SFTNTMP = 288.2 INTFTENS = 0.2500E-01(E) INTFTTMP = 293.0 (E
 SOLUBPNT = 0.5000 SOLUBTMP = 293.2 A = B = AVP = 9.107
 BVP = 1104. CVP = -35.46 VFUPRBND = 373.2 VPLWRBND = 273.2 AVCP = 0.2390E+05(E
 BVCP = 180.5 (E) CVCP = -0.1272 (E) DVCP = 0.3310E-04(E) VHCUPBND = 600.0 (E) VHCLOBND = 300.0 (E
 HTFUSION = 0.6699E+05 LHTVAPOR = 0.3014E+06 HTCOMBNTN = -0.1130E+08 HTDECOMP = HTSOLUTN =
 HTREACTN = HTPOLYMR = -0.7746E+06 LOFLWLIM = 7.300 UPFLWLIM = 16.00 BURNRATE = 0.4500E-04
 TOXINHAL = 25.00 INHALCNC = INHALTME = LOTOXLM = UPTOXLM =
 LAIETOX = ABFLMTMP = MOLRATIO = AIRFUEL = FLMETEMP =
 MOLFRAC =

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VCM      CHEMNAME = VINYL CHLORIDE
      MOLECWT = 62.50      NBP = 259.4      NFP = 119.4      CRITTEMP= 431.6      CRITPRES= 0.5340E+07
      DENSITY = 969.0      DENSTEMP= 260.2      SHPSTATE=L      ARHO = 1411.      BRHO = -1.700
      CRHO = 0.0000E+00      LDUPREND= 298.2      LDLRBND= 253.2      LQVISPNT= 0.2670E-03      LQVISTMP= 260.2
      AVIS = -9.918      BVIS = 440.0      LVUPREND= 283.2      LVLWRBND= 248.2      LQTHRCND=
      LTHCNTMP=          ACON =          BCON =          LTCUPBND=          LTCLOBND=
      LQHTCPPT= 1172.      LQHTCPTM= 259.2      AHC = -116.4      SHC =          LHCUPBND= 373.2
      LHCLOBND= 233.2      SURFTENS= 0.2089E-01      SFTNTMP= 263.2      INTFTENS= 0.3000E-01(E)      INTFTTMP= 293.0      (E)
      SOLUBPNT= 0.6000      SOLUBTMP= 293.2      A =          B =          AVP =          9.566
      BVP = 1183.      CVP = 0.0000E+00      VFUPREND= 323.0      VPLWRBND= 223.0      AVCP =          9630.
      BVCP = 174.8      CVCP = -0.9002E-01      DVCP = 0.0000E+00      VHCUPBND= 600.0      VHCLOBND= 250.0
      HTFUSION= 0.7913E+05      LHTVAPOR= 0.3684E+06      HTCOMBNTN= -0.1892E+08      HTDECOMP=          HTSOLUTN=
      HTREACTN=          HTPOLYMR= -0.1695E+07      LOFLMLIM= 4.000      UPFLMLIM= 26.00      BURNRATE= 0.7167E-04
      TOXINHAL= 200.0      INHALCNC= 500.0      INHALTME= 300.0      LOTOXLIM=          UPTOXLIM=
      LATETOX =          ABFLMTMP=          MOLRATIO= 0.8750      (E)      AIRFUEL = 5.490      (E)      FLMETEMP=
      MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VFI  CHEMNAME = VINYL FLUORIDE, INHIBITED      PATHCODE = A  B  C  D  E  F  G  Z
      MOLEWT = 46.10      NBP = 201.0      NFP = 112.0      CRITTEMP= 327.9      CRITPRES= 0.5240E+07
      DENSITY = 707.0      DENSTEMP= 273.1      SHPSTATE=L      ARHO = 1390.      BRHO = -2.500
      CRHQ = 0.0000E+00      LDUPRBND= 283.1      LDLWRBND= 233.1      LQVISPNT= 0.1600E-03      LQVISTMP= 277.5
      AVIS = -13.59      BVIS = 1347.      LVUPRBND= 283.1      LVLWRBND= 233.1      LQTHRCND= 0.4652E-01
      LTHCNTMP= 273.1      ACON = 0.2498      BCON = -0.7443E-03      LTCUPBND= 273.1      LTCLOBND= 173.1
      LQHTCPPT= 2026.      LQHTCPTM= 282.1      AHC = 1236.      BHC = 3.014      LHCUPSND= 293.1
      LHCLOBND= 253.1      SURFTENS= 0.5000E-02      SFTNTEMP= 288.1      INTFTENS=      INTFTTMP=
      SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.333
      BVP = 869.8      CVP = -0.1500      VFUPRBND= 233.1      VPLWRBND= 198.1      AVCP = 0.1951E+05
      BVCP = 97.13      CVCP = 0.0000E+00      DVCP = 0.0000E+00      VHCUPBID= 320.0      VHCLOBND= 220.0
      HTFUSION=      LHTVAPOR= 0.3620E+06      HTCOMSTN= -0.1500E+08(E)      HTDECOMP=      HTSOLUTN=
      HTREACTN=      LHTPOLYMR=      LOFLMLIM= 2.600      UPFLMLIM= 21.70      BURNRATE=
      TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM=      UPTOXLIM=
      LATETOX =      ABFLNTMP=      MOLRATIO= 0.9375      (E) AIRFUEL = 8.189      (E) FLMETEMP=
      MOLFRAC =

```

HIBITED

F G Z

PATHCODE = A B

MOLEWT =	58.10	NBP =	278.7	NFP =	151.0	CRITTEMP=	CRITPRES=
DENSITY =	777.0	DENSTEMP=	273.1	SHSTATE=L		ARHO =	BRHO =
CRHO =	0.0000E+00	LDUPRBN=	318.1	LDLWRBN=	258.1	LOVISPNT=	0.2500E-03(E) LOVISTMP=
AVIS =	-11.21	(E) BVIS =	800.0	(E) LVUPRBN=	283.1	LVLWRBN=	263.1
LTHCNTMP=	273.1	ACON =	0.1163	(E) BCON =	0.0000E+00(E) LTCUPBN=	283.1	LTCLOBN=
LOHTCPT=	1465.	(E) LOHTCPTM=	273.1	AHC =	1465.	(E) BHC =	0.0000E+00(E) LHCUPSN=
LHCLOBN=	263.1	SURFTENS=	0.1000E-01(E) SFTNTEMP=	273.1	INTFTENS=	0.2500E-01(E) INTFTTMP=	273.1
SOLUBPNT=	2.000	SOLUBTMP=	293.1	A =	B =	AVP =	9.545
BVP =	1265.	CVP =	-0.1500	VFUPRBN=	413.1	VPLWRBN=	273.1
BVCP =	248.7	(E) CVCP =	-0.1154	(E) DVCP =	0.1637E-04(E) VHCUPBN=	550.0	VHCLOBN=
HTFUSION=		LHTVAPOR=	0.4200E+06(E) HTCOMSTN=	-0.3300E+08(E) HTDECOMP=		HTSOLUTN=	
HTREACTN=		HTPOLYMR=		LOFLWLIM=	2.600	UPFLWLIM=	BURNRATE=
TOXINHAL=		INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-03
LARETOX =		ABFLMTMP=		MOLRATIO=	0.7500	(E) AIRFUEL =	9.451
MOLFRAC =							(E) FLMETEMP=

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

VOT	CHENAME = VANADIUM OXYTRICHLORIDE	PATHCODE = A	O
MOLEWT =	173.3	NBP =	399.0
DENSITY =	1830.	DENSTMP =	293.1
CRHO =	0.0000E+00	LDUPRND =	313.1
AVIS =		BVIS =	
LTHCNTMP =		ACON =	
LOHTCPPT =	523.3	LOHTCPTM =	298
LHCLOBND =	253.1	SURFTENS =	
SOLUBPNT =		SOLUBTMP =	
BVP =	1968.	CVP =	-0.1500
BVCP =		CVCP =	
HTFUSION =		LHTVAPOR =	
HTREACTN =		HTPOLYMR =	
TOXINHAL =		INHALCNC =	
LATETOX =		ABFLMTMP =	
MOLFRAC =			
		NFP =	196.0
		SHPSTATE =	L
		LDLWRBND =	273.1
		LVUPRND =	
		BCON =	
		AHC =	523.3
		SFTNTMP =	
		A =	
		VFUPRND =	403.1
		DVCP =	
		HTCORSTN =	
		LOFLMLIM =	
		INHALTME =	
		MOLRATIO =	
		CRITTEMP =	
		APHC =	2362.
		LOVISINT =	
		LVLWRBND =	
		LTCUPBND =	
		BHC =	0.0000E+00
		INTFTTMS =	
		B =	
		VPLWRBND =	288.1
		VHCUPBND =	
		HTSOLUTN =	
		BURNRATE =	
		LOTOXLIM =	0.5000E-04
		UPTOXLIM =	0.5000E-03
		AIRFUEL =	
		FLMETEMP =	
		CRITPRES =	
		BRHO =	-1.800
		LOVISTMP =	
		LQTHRCND =	
		LTCLOBND =	
		LHCUPBND =	313.1
		INTFTTMP =	
		AVP =	9.938
		AVCP =	
		VHCLOSND =	

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
VTS  CHEMNAME = VINYLTRICHLOROSILANE      PATHCODE = A  0

MOLEWT = 161.5      NBP = 363.8      CRITPRES=
DENSITY = 1260.      DENSTEMP= 293.1      ARHO = 1558.      BRHO = -1.000
CRHO = 0.0000E+00      LDUPRND= 303.1      LDWRBND= 273.1      LQVISPNT= 0.6300E-03      LQVISTMP= 298.1
AVIS = -10.05      (E) BVIS = 800.0      (E) LVUPRND= 303.1      LVLWRBND= 288.1      LQTHRCND= 0.1279
LTHCNTMP= 303.1      ACON = 0.1279      BCON = 0.0000E+00      LTCUPBND= 313.1      LTCLOBND= 293.1
LQHTCPPT= 837.4      LQHTCPTM= 303.1      AHC = 837.4      (E) BHC = 0.0000E+00(E)      LHCUPBND= 333.1
LHCLOBND= 293.1      SURFTENS= 0.2800E-01(E)      SFTNTMP= 293.1      INTFTENS=      INTFTTMP=
SOLUBPNT=      SOLUBTMP=      A =      B =      AVP = 9.841
BVP = 1759.      CVP = -0.1500      VFUPRND= 373.1      VPLWRBND= 273.1      AVCP =
BVCP =      CVCP =      DVCP =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR= 0.2000E+06      HTCONSTN= -0.1000E+08(E)      HTDECONP=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM= 3.000      LQFLMLIM=      BURNRATE= 0.4843E-04
TOXINHAL=      INHALCNC=      INHALTME=      LOTOXLIM= 0.5000E-04      UPTOXLIM= 0.5000E-03
LAFETOX =      ABFLMTMP=      MOLRATIO=      AIRFUEL =      FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
WCA  CHEMNAME = WAXES: CARNAUBA      PATHCODE = A  T  U
MOLEWT =          NBP =          NFP = 359.0 (E) CRITENP=
DENSITY = 900.0 (E) DENSTEMP= 298.2      SHPSTATE=S      ARHO = 780.0 (E) BRHO = 0.0000E+00(E)
CRHO = 0.0000E+00(E) LDUPRND= 440.0 (E) LDLWFSND= 410.0 (E) LQVISPT= 0.4000E-02(E) LQVISTMP= 372.0 (E)
AVIS = -10.90 (E) BVIS = 2001. (E) LVUPRND= 380.0 (E) LVLWRBND= 360.0 (E) LQTHRCND= 0.1500 (E)
LTHCNTMP= 370.0 (E) ACON = 0.1500 (E) BCON = 0.0000E+00(E) LTCUPBND= 380.0 (E) LTCLOBND= 360.0 (E)
LQHTCPT= 2000. (E) LQHTCPTM= 370.0 (E) AHC = 2000. (E) BHC = 0.0000E+00(E) LHCUPBND= 400.0 (E)
LHCLOBND= 360.0 (E) SURFTENS= 0.3000E-01(E) SFTNTMP= 370.0 (E) INTFTENS= 0.4000E-01(E) INTFTMP= 373.0 (E)
SOLUBPNT=          SOLUBTMP=          A =          B =          AVP =
BVP =          CVP =          VFUPRND=          VPLWRBND=          AVCP =
BVCP =          CVCP =          DVCP =          VHCUPBND=          VHCLOBND=
HTFUSION=          LHTVAPOR=          HTCOASTN= -0.4200E+08(E) HTDECOMP=          HTSOLUTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=          UPFLMLIM=          BURNRATE=
TOXINHAL=          INHALCNC=          INHALTME=          LOTOXLIM=          UPTOXLIM=
LAFETOX =          ABFLMTMP=          MOLRATIO=          AIRFUEL =          FLMETEMP=
MOLFRAC =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

WPF	CHEMNAME = WAXES: PARAFFIN	PATHCODE = A T U			
MOLECWT =	NBP =	NFP =	338.0	(E) CRITTEMP=	CRITPRES=
DENSITY =	780.0 (E) DENSTEMP=	293.2	SHPSSTATE=L	ARHO =	780.0 (E) BRHO =
CR10 =	0.0000E+00(E) LDUPRND=	440.0	(E) LDLWRBND=	410.0	(E) LOVISPT=
AVIS =	BVIS =	LVUPRND=	LVLRBND=	LQTHRCND=	0.1500 (E)
LTHCNTMP=	420.0 (E) ACON =	0.1500	(E) BCON =	0.0000E+00(E) LTCUPBND=	440.0 (E) LTCLOBND=
LQHTCPPT=	2000. (E) LQHTCPTM=	370.0	(E) AHC =	2000. (E) EHC =	0.0000E+00(E) LHCUPBND=
LHCLOBND=	350.0 (E) SURFTENS=	0.3060E-01	SFTNTMP=	327.2	INTFTENS=
SOLUBPNT=	SOLUBTMP=	A =	B =	AVP =	327.2
BVP =	CVP =	VFUPRND=	VPLWRBND=	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	0.1549E+06	LHTVAPOR=	HTCOMSTN=	-0.4200E+08(E) HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=	
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=	0.1500E-01
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
XLM  CHEMNAME = M-XYLENE
      MOLECW = 106.2  NBP = 405.1  NFP = 225.3  CRITTEMP = 617.0  CRITPRES = 0.3540E+07
      DENSITY = 864.0  DENSTEMP = 293.2  SHPSSTATE=L  ARHO = 1099.  BRHO = -0.8000
      CRHO = 0.0000E+00  LDUPREND = 313.2  LDWRSND = 263.2  LQVISPNT = 0.6170E-03  LQVISTMP = 293.2
      AVIS = -11.07  BVIS = 1080.  LVLPBSND = 303.2  LVLWRBND = 263.2  LQTHRCND = 0.1303
      LTHCNTMP = 293.2  ACON = 0.2666  BCON = -0.4652E-03  LTCUPBND = 313.2  LTCLOBND = 273.2
      LQHTCPPT = 1687.  LQHTCPTM = 293.2  AHC = 459.9  BHC = 4.187  LHCUPBND = 373.2
      LHCLOBND = 273.2  SURFTENS = 0.2860E-01  SFTNTMP = 293.2  INTFTENS = 0.3500E-01(E)  INTFTMP = 293.0 (E)
      SOLUBPNT =  SOLUBTMP =  A =  B =  AVP = 9.134
      BVP = 1462.  CVP = -58.06  VFUPRBND = 403.2  VPLWRBND = 283.2  AVCP = -0.1110E+05
      BVCP = 522.9  CVCP = -0.1926  DVCP = 0.0000E+00  VHCUPBND = 600.0  VHCLOBND = 250.0
      HTFUSION =  LHTVAPOR = 0.3429E+06  HTCOMSTN = -0.4083E+08  HTSOLUTN =
      HTREACTN =  HTPOLYMR =  LOFLMLIM = 1.100  UPFLMLIM = 6.400  BURNRATE = 0.9667E-04
      TOXINHAL = 100.0  INHALCNC = 300.0  INHALTME = 1800.  LOTOXLIM = 0.5000E-04  UPTOXLIM = 0.5000E-03
      LATETOX =  ABFLMTMP =  MOLRATIO =  AIRFUEL =  FLMETEMP =
      MOLFRAC =
*****

```


HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/13 PAGE432A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
XLP  CHEMNAME = P-XYLENE
*****
MOLECWt = 106.2  NBP = 411.5  NFP = 286.5  CRITTEMP= 616.2  CRITPRES= 0.3510E+07
DENSITY = 861.0  DENSTEMP= 293.2  SHPSTATE=L  ARHO = 1096.  BRHO = -0.8000
CRHO = 0.0000E+00  LDUPRND= 323.2  LDWRBND= 286.2  LQVISPT= 0.6440E-03  LQVISTMP= 293.2
AVIS = -11.04  BVIS = 1080.  LVUPRND= 323.2  LVLWRBND= 286.2  LQTHRCND= 0.1337
LTHCNTMP= 293.2  ACON = 0.2424  BCON = -0.3722E-03  LTCUPBND= 313.2  LTCLOBND= 273.2
LQHTCPPT= 1746.  LQHTCPTM= 293.2  AHC = 518.5  EHC = 4.187  LHCUPBND= 413.2
LHCLOBND= 273.2  SURFTENS= 0.2830E-01  SFTNTMP= 293.2  INTFTENS= 0.3780E-01  INTFTTMP= 293.2
SOLUBPNT=  SOLUBTMP=  A =  B =  AVP = 9.116
BVP = 1453.  CVP = -57.86  VFUPRND= 403.2  VPLWRBND= 283.2  AVCP = -6950.
BVCP = 499.1  CVCP = -0.1675  DVCP = 0.0000E+00  VHCUPBND= 600.0  VHCLOBND= 250.0
HTFUSION=  LHTVAPOR= 0.3391E+06  HTCOWSTN= -0.4084E+08  HTDECCMP=  HTSOLUTN=
HTREACTN=  LHPOLYMR=  LOFLMLIM= 1.100  UPFLMLIM= 6.600  BURNRATE= 0.9667E-04
TOXINHAL= 100.0  INHALCNC= 300.0  INHALTME= 1800.  LOTOXLIM= 0.5000E-04  WPTOXLIM= 0.5000E-03
LAFETOX =  ABFLMTMP=  MOLRATIO=  AIRFUEL =  FLMETEMP=
MOLFRAC =
*****
PATHCODE = A T U

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

XYL CHEMNAME = XYLENOL

PATHCODE = A T U X Y

MOLECWT = 122.2	NBP = 485.0	NFP = 275.5	(E) CRITTEMP=	CRITPRES=	
DENSITY = 1010.	DENSTEMP= 293.1	SHPSIATE=S	ARHC = 1248.	BRHO = -0.8000	
CRHO = 0.0000E+00	LDUPREND= 373.1	LDLWRBND= 318.1	LOVISPIAT= 0.1550E-02	LOVISIMP= 353.1	
AVIS = -13.35	BVIS = 2430.	LVUPRBND= 393.1	LVLWRBND= 343.1	LOTHRCND= 0.1396	(E)
LTHCNTMP= 298.1	ACON = 0.1396	(E) BCON = 0.0000E+00(E)	LTCUPBND= 303.1	LTCLOBND= 288.1	
LOHTCPPT= 1926	(E) LOHTCPTM= 293.1	AHC = 698.6	(E) BHC = 4.187	LHCUPBND= 303.1	
LHCLOBND= 288.1	SURFTENS= 0.3000E-01(E)	SFTNIEMP= 303.1	INTFTENS= 0.2500E-01(E)	INTFTIMP= 298.1	
SOLUBPNT= 0.2000	SOLUBTMP= 298.1	A =	B =	AVP = 10.72	
BVP = 2773.	CVP = -0.1500	VUPREND= 493.1	VPLWRBND= 373.1	AVCP =	
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=	
HTFUSION=	LHTVAPOR= 0.4945E+06	HTCOMBNT= -0.3700E+08(E)	HTDECOMP=	HTSOLUTN=	
HTREACTN=	HTPOLYMR=	LOFLMLIM= 1.400	UPFLMLIM=	BURNRATE=	
TOXINHAL= 45.00	INHALCNC=	INHALTME=	LOTOXLIM= 0.5000E-04	UPTOXLIM= 0.5000E-03	
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=	
MOLFRAC =					

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZAC  CHEMNAME = ZINC AMMONIUM CHLORIDE          PATHCODE = SS
MOLEWT = 296.8      NBP = 613.0
DENSITY = 1810.     DENSTEMP= 293.1
CRHO =
AVIS =
LTHCNTMP=
LQHTCPPT=
LHCLOBND=
SOLUBPNT=
BVP =
BVCP =
HTFUSION=
HTREACTN=
TOXINHAL=
LATETOX =
MOLFRAC =

LDUPRBND=
BVIS =
ACON =
LQHTCPTM=
SURFTENS=
SOLUBTMP=
CVP =
CVCP =
LHTVAPOR=
HTPOLYMR=
INHALCNC=
ABFLMTMP=

LDLWRBND=
LVUPRBND=
BCON =
AHC =
SFTNTMP=
A =
VFUPRBND=
DVCP =
HTCOMSTN=
LOFLMLIM=
INHALTME=
MOLRATIO=

SHPSTATE=S
CRITPRES=
BRHO =
LOVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

CRITTMP=
ARHO =
LQVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/19 PAGE435 /A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZAR	CHEMNAME = ZINC ARSENATE	PATHCODE = 11	
MOLEWT =	866.0 (E) NBP =	NFP =	CRITTEMP=
DENSITY =	3310. DENSTEMP=	288.1 SHPSSTATE=S	ARHO =
CRHO =	LDUPRBN=	LDLWRBN=	LOVISPT=
AVIS =	BVIS =	LVUPRBN=	LVLWRBN=
LTHCNTMP=	ACON =	BCON =	LTCUPBN=
LQHTCPPT=	LOHTCPTM=	AHC =	BHC =
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTENS=
SOLUBPNT=	SOLUBTMP=	A =	B =
BVP =	CVP =	VFUPRBN=	VPLWRBN=
BVCP =	CVCP =	DVCP =	VHCUPBN=
HTFUSION=	LHTVAPOR=	HTCONBTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=
TOXINHAL=	0.1300E-01(E) INHALCNC=	INHALTME=	LOTOXLIM=
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =
MOLFRAC =			
			CRITPRES=
			BRHO =
			LQVISTMP=
			LQTHRCND=
			LTCLOBND=
			LHCUPBND=
			INTFTTMP=
			AVP =
			AVCP =
			VHCLOBND=
			BURNRATE=
			UPTOXLIM=
			FLMETEMP=

PATHCODE = II

	MOLECW =	434.7	NBP =	NFP =	CRITTEMP=	CRITPRES=
	DENSITY =	2700.	DENSTEMP=	SHPSTATE=S	ARHO =	BRHO =
	CRHO =		LDUPRND=	LDLWRBND=	LQVISPT=	LQVISTMP=
	AVIS =		BVIS =	LVUPRND=	LVLWRBND=	LQTHRCND=
	LTHCNTMP=		ACON =	BCON =	LTCUPBND=	LTCLOBND=
	LQHTCPPT=		LQHTCPTM=	AHC =	BHC =	LHCUPBND=
	LHCLOBND=		SURFTENS=	SFTNTEMP=	INTFTENS=	INTFTTMP=
	SOLUBPNT=		SOLUBTMP=	A =	B =	AVP =
	BVP =		CVP =	VFUPRND=	VPLWRBND=	AVCP =
	BVCP =		CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
	HTFUSION=		LHTVAPOR=	HTCOMSTN=	HTDECOMP=	HTSOLUTN=
	HTREACTN=		HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
	TOXINHAL=	0.5200	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
	LATETOX =		ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
	MOLFRAC =					
					0.5000E-02	0.1500E-01

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZBR CHEMNAME = ZINC BROMIDE

PATHCODE = SS

MOLEWT = 225.2	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 4220.	DENSTEMP= 293.1	SHSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBD=	LDLWRBD=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBD=	LVLWRBD=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	LHCUPBND=	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTEMP=	INTFTMP=	INTFTMP=
SOLUBPNT= 439.0	SOLUBTMP= 291.1	A = -1249.	B = 5.800	AVP =
BVP =	CVP =	VFUPRBD=	VPLWRBD=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMSTN=	HTSOLUTN=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZCA  CHEMNAME = ZIRCONIUM ACETATE          PATHCODE = A  P
MOLEWT = 327.0      NBP =                NFP =      CRITTEMP=      CRITPRES=
DENSITY = 1370.     DENSTEMP= 293.1      SHPSTATE=L  ARHO =      BRHO =
CRHO =             LDUPRBND=             LDWRBND=    LQVISPAT=    LQVISTMP=
AVIS =             BVIS =                LVUPRBND=    LVLWRBND=    LQTHRCND=
LTHCNTMP=          ACON =                BCON =      LTCUPBND=    LTCLOBND=
LOHTCPPT=          LOHTCPTM=             SURFTENS=    EHC =        LHCUPBND=
LHCLOBND=          SURFTENS=             SOLUBTMP=    INTFTTMP=    INTFTTMP=
SOLUBPNT=          SOLUBTMP=             A =          B =        AVP =
BVP =              CVP =                 VFUPRBND=    VPLWRBND=    AVCP =
BVCP =             CVCP =                 DVCP =      VHCUPBND=    VHCLOBND=
HTFUSION=          LHTVAPOR=             HTCOMSTN=    HTSOLUTN=    HTSOLUTN=
HTREACTN=          HTPOLYMR=             LOFLMLIM=    UPFLMLIM=    BURNRATE=
TOXINHAL= 0.3430   INHALCNC=             INHALTME=    LOTOXLIM=    UPTOXLIM= 0.5000E-02
LATETOX =          ABFLMTMP=             MOLRATIO=    AIRFUEL =    FLMETEMP=
MOLFRAC =

```

PATHCODE = SS

MOLECWNT =	136.3	NBP	=	NFP	=	556.0	CRITTEMP=	CRITPRES=
DENSITY =	2910.	DENSTEMP=	298.2	SHPSTATE=S			ARHO =	BRHO =
CRHO =		LDUPREND=		LDLWRBND=			LQVISPNT=	LQVISTMP=
AVIS =		BVIS =		LVUPRSND=			LVLWRBND=	LQTHRCND=
LTHCNTMP=		ACON =		BCON =			LTCUPBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =			BHC =	LHCUPBND=
LHCLOBND=		SURFTENS=		SFTNTEMP=			INTFTENS=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =	-857.2	B =	4.390	AVP =
BVP =		CVP =		VFUPRSND=		VPLWRBND=		AVCP =
BVCP =		CVCP =		DVCP =		VHCUPBND=		VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCONBNTN=		HTDECOMP=		HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=		UPFLMLIM=		BURNRATE=
TOXINHAL=	0.1645	INHALCNC=		INHALTME=		LOTOXLIM=	0.5000E-04	UPTOXLIM=
LATEOX =		ABFLMTMP=		MOLRATIO=		AIRFUEL =		FLMETEMP=
MOLFRAC =								

PATHCODE = SS

ZCO CHEMNAME = ZIRCONIUM OXYCHLORIDE

MOLECW =	322.3	MBP	=	NBP	=	CRITTEMP=	CRITPRES=
DENSITY =	1000.	(E) DENTEMP=	293.1	SHSTATE=S	ARHO =	ARHO =	BRHO =
CRHO =		LDUPRBD=		LDLWRBD=	LQVISPT=	LQVISTMP=	LQVISTMP=
AVIS =		BVIS =		LVUPRBD=	LVLWRBD=	LQTHRCND=	LQTHRCND=
LTHCNTMP=		ACON =		BCON =	LTCUPBD=	LTCLOBND=	LTCLOBND=
LQHTCPPT=		LQHTCPTM=		AHC =	EMC =	LHCUPBND=	LHCUPBND=
LHCLGBND=		SURFTENS=		SFTNTMP=	INTFTENS=	INTFTTMP=	INTFTTMP=
SOLUBPNT=		SOLUBTMP=		A =	B =	AVP =	AVP =
BVP =		CVP =		VFUPRBD=	VPLWRBD=	AVCP =	AVCP =
BVCP =		CVCP =		DVCP =	VHCUPBD=	VHCLOBND=	VHCLOBND=
HTFUSION=		LHTVAPOR=		HTCOMSTN=	HTDECOMP=	HTSOLUTN=	HTSOLUTN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=	UPFLMLIM=	BURNRATE=	BURNRATE=
TOXINHAL=	0.3500	INHALCNC=		INHALTIME=	LOTOXLIN=	UPTOXLIM=	UPTOXLIM=
LATETOX =		ABFLMTMP=		MOLRATIO=	AIRFUEL =	FLMETEMP=	FLMETEMP=
MOLFRAC =							

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZCR CHEMNAME = ZINC CHROMATE PATHCODE = SS

MOLECWT = 874.0	(E) NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 3430.	DENSTEMP= 293.1	SHPSSTATE=S	ARHO =	BRHO =
CRHO =	LDUPREND=	LDLWRBND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LQTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTMP=	INTFTENS=	INTFTTMP=
SOLUBPNT= 0.1000	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCOMBTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLMLIM=	UPFLMLIM=	BURNRATE=
TOXINHAL= 0.2600E-02(E)	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM= 0.5000E-02
LATETOX =	ABFLWTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

 PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZCS	CHEMNAME = ZIRCONIUM SULFATE	PATHCODE = SS	
MOLEWT =	355.4	NFP =	CRITPRES =
DENSITY =	3000. (E) DENS TEMP = 293.1	SHPSATE = S	BRHO =
CRHO =	LDUPRND =	LDLWRND =	LQVISTMP =
AVIS =	BVIS =	LVUPRND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTTMP =
SOLUBPNT =	SOLUBTMP = 298.1	A = -16.81	AVP =
BVP =	CVP =	VFLWRND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCLOBND =
HTFUSIGN =	LHTVAPOR =	HTCOMSTN =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	BURNRATE =
TOXINHAL =	0.3150	INHALTME =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	FLMETEMP =
MOLFRAC =			

ZDP	CHEMNAME = ZINC DIALKYL DITHIOPHOSPHATE	PATHCODE = A	X	Y
MOLEWT =	548.0	(E) NBP =	NFP =	CRITTEMP=
DENSITY =	1190.	(E) DENSTEMP=	293.1	SHPSTATE=L
CRHO =		LDUPREND=		LDLWREND=
AVIS =		BVIS =		LVUPREND=
LTHCNTMP=		ACON =		BCON =
LOHTCPPT=		LOHTCPTM=		AHC =
LHCLOBND=		SURFTENS=		SFTNTMP=
SOLUBPNT=		SOLUBTMP=		A =
BVP =		CVP =		VFUPREND=
BVCP =		CVCP =		DVCP =
HTFUSION=		LHTVAPOR=		HTCONETN=
HTREACTN=		HTPOLYMR=		LOFLMLIM=
TOXINHAL=		INHALCNC=		INHALTME=
LATEOX =		ABFLWTMP=		MOLRATIO=
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZFB  CHEMNAME = ZINC FLUOROBORATE      PATHCODE = A  P
MOLEWT = 239.0      NBP = 373.0      (E) NFP =
DENSITY = 1450.      DENSTEMP= 293.1      SHPSTATE=L
CRHO =              LDUPRND=              LDWRND=
AVIS =              BVIS =              LVUPRND=
LTHCNTMP=          ACON =              BCON =
LQHTCPPT=          LQHTCPTM=          AHC =
LHCLOBND=          SURFTENS=          SFTNTMP=
SOLUBPNT=          SOLUBTMP=          A =
BVP =              CVP =              VFUPRND=
BVCP =              CVCP =              DVCP =
HTFUSION=          LHTVAPOR=          HTCOMSTN=
HTREACTN=          HTPOLYMR=          LOFLMLIM=
TOXINHAL=          INHALCNC=          INHALTME=
LATETOX =          ABFLMTMP=          MOLRATIO=
MOLFRAC =

CRITPRES=
BRHO =
LOVISTMP=
LOTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=
CRITTEMP=
ARHO =
LOVISPNT=
LVLWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMR=
UPFLMLIM=
LOTOXLIM= 0.5000E-03
AIRFUEL =

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZIR CHEMNAME = ZIRCONIUM NITRATE PATHCODE = SS

MOLECW = 429.3	NBP =	NFP =	CRITEMP =	CRITPRES =
DENSITY = 1000. (E)	DENSTEMP = 293.1	SHPS:ATE = S	ARHO =	BRHO =
CRHO =	LDUPREND =	LDLWRBND =	LQVISPNT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	EHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTIMP =
SOLUBPNT =	SOLUBTMP =	A =	B =	AVP =
BVP =	CVP =	VFUPRBN =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCC:STN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.2600	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LATETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZNA CHEMNAME = ZINC ACETATE

PATHCODE = SS

MOLEWT = 219.5	NBP =	NFP =	CRITTEMP=	CRITPRES=
DENSITY = 1740.	DENSTEMP= 293.1	SHPSTATE=S	ARHO =	BRHO =
CRHO =	LDUPRBND=	LDLWRBND=	LQVISPT=	LQVISTMP=
AVIS =	BVIS =	LVUPRBND=	LVLWRBND=	LOTHRCND=
LTHCNTMP=	ACON =	BCON =	LTCUPBND=	LTCLOBND=
LQHTCPPT=	LQHTCPTM=	AHC =	BHC =	LHCUPBND=
LHCLOBND=	SURFTENS=	SFTNTENS=	INTFTENS=	INTFTTMP=
SOLUBPNT= 29.00	SOLUBTMP= 293.1	A =	B =	AVP =
BVP =	CVP =	VFUPRBND=	VPLWRBND=	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND=	VHCLOBND=
HTFUSION=	LHTVAPOR=	HTCORSTN=	HTDECOMP=	HTSOLUTN=
HTREACTN=	HTPOLYMR=	LOFLW/LIM=	UPFLW/LIM=	BURNRATE=
TOXINHAL=	INHALCNC=	INHALTME=	LOTOXLIM=	UPTOXLIM=
LAFETOX =	ABFLMTMP=	MOLRATIO=	AIRFUEL =	FLMETEMP=
MOLFRAC =				

-1000. IE

0.5000E-02

0.5000E-03

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZNT  CHEMNAME = ZINC NITRATE          PATHCODE = SS
MOLEWT = 297.5      NBP =      NFP = 309.0      CRITPRES=
DENSITY = 2070.     DENSTEMP= 293.1      SHPSTATE=S      BRHO =
CRHO =      LDUPRND=      BVIS =      LVUPRND=      LQVISPT=
AVIS =      ACON =      LQHTCPTM=      SFTNTMP=      LQTHRCND=
LTHCNTMP=      SURFTENS=      SOLUBTMP= 293.1      A = -316.3      LTCLOBND=
LQHTCPTM=      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
LHCLOBND=      SOLUBPNT= 123.0      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
SOLUBPNT= 123.0      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
BVP =      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
BVCN =      CVP =      CVCP =      LHTVAPOR=      HTSOLUTN=
HTFUSION=      LHTVAPOR=      HTCOMBTN=      UPFLMLIM=
HTREACTN=      HTPOLYMR=      INHALTME=      LOTOXLIM=
TOXINHAL=      INHALCNC=      ABFLMTMP=      MOLRATIO=
LATETOX =      ABFLMTMP=      MOLRATIO=
MOLFRAC =
CRITPRES=
BRHO =
LQVISPT=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTIMP=
AVP = 1.500
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-02
FLMETEMP=

```

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/31 PAGE448A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZPP  CHEMNAME = ZINC PHOSPHIDE          PATHCODE = 11
MOLEWT = 258.1      NBP = 1373.
DENSITY = 4550.     DENSTEMP= 286.1
CRHO =              LDUPRBD=
AVIS =              BVIS =
LTHCNTMP=           ACON =
LQHTCPPT=           LQHTCPTM=
LHCLOBND=           SURFTENS=
SOLUBPNT=           SOLUBTMP=
BVP =               CVP =
BVCP =              CVCP =
HTFUSION=           LHTVAPOR=
HTREACTN=           HTPOLYMR=
TOXINHAL=           INHALCNC=
LATETOX =           ABFLMTMP=
MOLFRAC =

CRITPRES=
BRHO =
LQVISTMP=
LQTHRCND=
LTCLOBND=
LHCUPBND=
INTFTTMP=
AVP =
AVCP =
VHCLOBND=
HTSOLUTN=
BURNRATE=
UPTOXLIM= 0.5000E-04(E
FLMETEMP=
CRITTENP=
ARHO =
LQVISPNT=
LVWRBND=
LTCUPBND=
BHC =
INTFTENS=
B =
VPLWRBND=
VHCUPBND=
HTDECOMP=
UPFLMLIM=
LOTOXLIM=
AIRFUEL =
  
```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

```

*****
ZPS  CHEMNAME = ZINC PHENOLSULFONATE      PATHCODE = SS
MOLEWT = 555.8      NBP = 393.0      CRITPRES=
DENSITY = 1000.      (E) DENSTEMP= 293.1      ARHO =
CRHO =      LDUPRBND=      LQVISPNT=      LQVISTMP=
AVIS =      BVIS =      LVLWRBND=      LQTHRCND=
LTHCNTMP=      ACCN =      LTCUPBND=      LTCLOBND=
LQHTCPPT=      LQHTCPTM=      BHC =      LHCUPBND=
LHCLOBND=      SURFTENS=      SFTNTMP=      INTFTTMP=
SOLUBPNT= 63.00      SOLUBTMP= 293.1      AVP =
BVP =      CVP =      VPLWRBND=      AVCP =
BVCP =      CVCP =      DVCV =      VHCUPBND=      VHCLOBND=
HTFUSION=      LHTVAPOR=      HTCONSTN=      HTSOLUTN=
HTREACTN=      HTPOLYMR=      LOFLMLIM=      BURNRATE=
TOXINHAL=      INHALCNC=      INHALTME=      UPTOXLIM= 0.5000E-03
LATETOX =      ABFLMTMP=      MOLRATIO=      FLMETEMP=
MOLFRAC =
*****

```

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZSF CHEMNAME = ZINC SULFATE

PATHCODE = SS

MOLECWT = 287.5	NBP =	NFP = 348.0	(E) CRITTEMP =	CRITPRES =
DENSITY = 1960.	DENSTEMP = 293.1	SHPSSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBND =	LDLWRBND =	LOVISPAT =	LQVISTMP =
AVIS =	BVIS =	LVUPRBND =	LVLWRBND =	LQTHRCND =
LTHCNTMP =	ACON =	BCON =	LTCUPBND =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	BHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTIMP =	INTFTENS =	INTFTIMP =
SOLUBPNT = 53.80	SOLUBTMP = 293.1	A = -125.0	B = 0.6100	AVP =
BVP =	CVP =	VFUPRBND =	VPLWRBND =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBND =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMBTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLWLIN =	UPFLWLIN =	BURNRATE =
TOXINHAL =	INHALCNC =	INHALTME =	LOTOXLIM =	UPTOXLIM = 0.5000E-02
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				

HAZARD ASSESSMENT COMPUTER SYSTEM (HACS) DATE 12/07/76 TIME 01/21/34 PAGE451/A

PROPERTY FILE FIELD VALUES ARE DISPLAYED IN SI SYSTEM OF UNITS

ZSL CHEMNAME = ZINC SILICOFLUORIDE PATHCODE = SS

MOLEWT = 315.5	NBP = 333.0	(E) NFP =	CRITTEMP =	CRITPRES =
DENSITY = 2100.	DENSTEMP = 293.1	SHPSTATE = S	ARHO =	BRHO =
CRHO =	LDUPRBN =	LDLWRBN =	LOVISPAT =	LOVISTMP =
AVIS =	BVIS =	LVUPRBN =	LVLWRBN =	LOTHRCND =
LTHCNTMP =	ACON =	BCON =	LJCUPBN =	LTCLOBND =
LQHTCPPT =	LQHTCPTM =	AHC =	SHC =	LHCUPBND =
LHCLOBND =	SURFTENS =	SFTNTEMP =	INTFTENS =	INTFTTMP =
SOLUBPNT = 54.20	SOLUBTMP = 293.1	A = 4.465	B = 0.1700	AVP =
BVP =	CVP =	VFUPRBN =	VPLWRBN =	AVCP =
BVCP =	CVCP =	DVCP =	VHCUPBN =	VHCLOBND =
HTFUSION =	LHTVAPOR =	HTCOMSTN =	HTDECOMP =	HTSOLUTN =
HTREACTN =	HTPOLYMR =	LOFLMLIM =	UPFLMLIM =	BURNRATE =
TOXINHAL = 0.1780	INHALCNC =	INHALTIME =	LOTOXLIM = 0.5000E-04	UPTOXLIM = 0.5000E-03
LAFETOX =	ABFLMTMP =	MOLRATIO =	AIRFUEL =	FLMETEMP =
MOLFRAC =				